

## SEQUENCE LISTING

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<120> COMPOSITIONS AND METHODS FOR  
 THE THERAPY AND DIAGNOSIS OF LUNG CANCER

<130> 210121.475C10

<140> US

<141> 2001-05-11

<160> 735

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 339

<212> DNA

<213> Homo sapien

<400> 1

gtactcagac	aggatagtc	tcatgtagc	caaagcamat	cctgtttcta	tactttagt	60
ttgctctcac	tcagtggcat	ratcattact	atacagtga	gaatgttrtt	atgtagcata	120
gatgtggggt	ctctagccca	cagctctsta	cctttgtcta	gcactcctgt	cctcatacct	180
ragtggcctg	tccatcagca	tgtttctcat	ctactttgct	tgtccagtcc	actgtggtcc	240
tcccttgccc	tctcccttat	gtggcagagt	ggaaccagct	gtcctgagac	ttgagttcaa	300
catctggttc	gcccattytc	atgtttgtgg	tctgagtac			339

<210> 2

<211> 698

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(698)

<223> n = A,T,C or G

<400> 2

gtactcagac	cacgactgca	ttttctccac	tgctgacggg	tctaatacca	gctgcttccc	60
tttcttgag	gcagagctng	tgaccttgag	aaagtgcct	gtgacctca	tgtgggtagt	120
gagctgctgc	aagggtgcat	gggagctccc	acactccatg	cactttwaga	tctgggactt	180
gcaggcctca	ractgccagg	tgtagctcgc	tccatttttg	tagccatagc	gsttgttga	240
ggacaactgc	aagttggcgt	tcttctgaga	agaaaaagaa	tctgcaaaag	atcctgtggt	300
tgaatcgggg	gaacacggcc	gattgacatc	aaaaacgcgt	ttcttagccc	gggtgaccat	360
tttcgaggaa	atggttgggg	actggctcct	tcaaaggcac	tttttggtta	tgttttgttt	420
yaatcatgtk	gacgctccaa	tcttggragg	gaatcgaang	rantcncnc	caaaacatrc	480

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stttcagraa ccttttgarc atcctctttt ttccgtrtcc cggmaargcc cytttccckg      540
ggctttgaaa wyagcctsgt tgggttctta aattaccart ccacnwggtg gaattccccg      600
ggccccctgc ccggtkccaa ccaattttgg graaaaacccc cncansccgt tkggantgcn      660
acaacntggn ntttttcntt tcgtgntccc ctngaacc                                698

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<210> 3
<211> 697
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(697)
<223> n = A,T,C or G

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<400> 3
gtactcagac ccccaacctc gaacagccag aagacaggtt gtctcctggg ccttggacac      60
agccngccag gccattgaag ganaagcaaa gacgaagcga accatctctc tccattgtgg      120
gggccaagta gctgcantan ccttcagtc cagttgcatt gggttaaaga gctcatacat      180
actatgtgtn aggggtacag aagcttttcc tcatagggca tgagctctcc nagagttgac      240
cttttgccctn aacttggggg ttctgtgggt cataaagttn ggatatgtat tttttttcaa      300
atggaanaaa atccgtattt ggcaaaaaga ctccaggggg atgatactgt ccttgccact      360
tacagtccaa angatnttcc ccaaagaata gacatttttt cctctcatca cttctggatg      420
caaaatcttt tatttttttt ctttctcgca cccccccaga ccccttnnag gttnaaccgc      480
ttcccatctc ccccatccca cacgatnttg aattngcann ncgttgntgg tcgggtcccn      540
nccgaaaggg tntttttatt cggggtntctg anttnnnaac cncnagttg aatccgcggg      600
gcggccnngn gggttnnacc atgntgggga naactncccn ccgcgnttgg aatgccanag      660
ccttgaaaant tttcttttgg tcgccccccn gagatttc                                697

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<210> 4
<211> 712
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(712)
<223> n = A,T,C or G

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<400> 4
gtactcagac aaccaatagg tgtgttyctc anatctgaaa cacaaaaaga ttctagctna      60
taatgttsaa tggttgaggg ttttaagtgat cttggtatgt tngatttagc agcgaatnggc      120
cgggtgcggt ggctcacgca tgtatcccag cactttggga ggccgaggca ggaggatcac      180
ctgaggtcag gagtttgaga ccagcctggc cgacatggtn aaaccccgct tctactanga      240
atacanaaat tagcccgggc atagtggcgc gtgcctrtga cctcsgctac tttggggatt      300
ctcctgagga agaattgctt gaactcaggg aagtggargt ttgcagtgag cttaaatcaa      360
gccactggca ctcccagcct gggktaacag agccamgact ctkgccgaaa aaaaaaraama      420
cgacggagaa nmagntctgt tattccatgg gaaattkgaa tttccttctt tkaaatatct      480
taaaatnggt cctcctwaaa aaagttcggc tggggcccgk tggtcacat tttkttaycc      540
cycccccttt tggggarggc caarggccgg kttgawtnnc ccttgagggg ccanaactcc      600
agnaaccrgn cccgggccar smgwkqkstr armcccttcc cyyccmaraa aawwcsmaaa      660
wwttyccsc cygsykggct ggkasckggt myyyyygmtm csyagcttgc tt                                712

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<210> 5

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<211> 679  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(679)  
 <223> n = A,T,C or G

<400> 5

gtactcagac	cacctcacat	gcagggtnag	aaacatggag	tgtgcggcag	catcctcctc	60
acatcccttt	gtgagcacgg	ctgctccgga	atactgacca	tctgggctag	cacgacctaa	120
cagagggttc	tgcaggatgt	gctattttaa	agcagctggg	tgcaacttgt	gaaaacggga	180
atctngaagc	agaacatgtn	atcagcgatg	gctgggattg	gtggacagga	ttgacaggag	240
tatttgaggc	tctaccaggc	ctgtctacag	gacagcttca	tcgaaggac	attttttaac	300
ctgttatatt	anattccaca	tatntttttt	aatgctnaag	catacagggt	gaatttctgg	360
atcgtaacta	ctagtgaact	ctgaggttta	cagttngaag	atgttctcnn	aggtttatca	420
agttntgtta	ttgatgatng	gtaatctaca	cctctggaag	ctgtngaag	tgaaaaagat	480
nentncanct	gaccagtttg	nagggcactc	tcttctggna	agnaatccgn	ccaaaaaaat	540
tgtttcnagg	gggcntgggg	ggtttaaaaa	aatgtttctn	ttncntaaa	aatgtttacc	600
cnnctattga	aaaaatgggg	gtcgnngggg	gcttnaaatc	cccnanttnt	gaatntnta	660
tccggaanct	tggtttccc					679

<210> 6  
 <211> 369  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(369)  
 <223> n = A,T,C or G

<400> 6

tcagtcagct	catgggtcct	ataagagaag	tcactctgtg	agtttccatg	gaggaagaaa	60
aagcttcatt	tctttaccct	gcagcaacag	cggaggagg	gagagcctat	cttctttgca	120
aattcattaa	ctttgtgggt	gaaggagca	gcgtcngaaa	ctgctttagc	acagtgggag	180
gaaaacaaac	agattcatct	ccggaaacca	aaggaaagg	tragtgggtt	tttattagcc	240
agctgtatcc	tagatggtca	atttccagt	gatgaatata	ccttacgtac	gtttctcttg	300
cttcctacct	nggcctgatc	agctnggcac	tttaatcatt	ccgtnggggt	wgctgtnaca	360
ctggactga						369

<210> 7  
 <211> 264  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(264)  
 <223> n = A,T,C or G

<400> 7

tgctggatra	gggatggggc	acgggagcac	agatmgactt	taactgcccc	cacgttntcm	60
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aggaaaggat tacaggcgtg agccactgag cccggcctct tctccacttt cataggttcc      120
agtctctggt tcttctttct cagtttggtg tttttgcttc ttaaammatg gagatnagaa      180
tgaacactac actcggaatc aggaagccct gcctggcgcc tctgtcacct gtctaggggc      240
ttcttctcac tgagtcaccc agca                                         264

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<210> 8
<211> 280
<212> DNA
<213> Homo sapien

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<220>
<221> misc_feature
<222> (1)...(280)
<223> n = A,T,C or G

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```

<400> 8
acctcaactg ccanaacan aactgttgta caagatttga ggatttaaca atatttcaca      60
tgaaatattt cagacctacg ngagggttta aagacnaatt aaatgagcac cngtgtgccc      120
accgcccna ttaagaatta gagcaagcag tgagggtgaag ccttgctcctt gcttttaaca      180
tagaaagtga tccaaattca ccaaacttga cttnnggttt tgcagtgtgg cctcctgatt      240
ctagacnctg gcgaaacatt tgatgggcaa aaaaaaaaaa                        280

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```

<210> 9
<211> 449
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(449)
<223> n = A,T,C or G

```

```

<400> 9
tcgtcaactc caggatggct ttgaaaatna atggacacag atctctcctg ttttgatrat      60
ntgcagtgtc natgactggc tttgcagttt attttgattc aggcaacaga tgttcctttt      120
ggttccctgt ctcccatggg cgtcatttca tgttgctctc tgccttcccc cagatattct      180
aagttcagga cacaagcttc tggcccatgc agagcagagg ccatgagggg tcacagcatg      240
ggtacgggag gaaacactgg gctnaccag atnctggact tgagtcttgc ctctgctgct      300
tgctgcacag cttctgtcat ggtgctaaac ctgtgacctg cctcacaggc ttagagcatg      360
cccgtagaag tactctnaac taaratgctt tccacaaatg agatgggttc atgaaaactt      420
caaataagag gcctgggcaa aaaaaaaaaa                        449

```

```

<210> 10
<211> 538
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(538)
<223> n = A,T,C or G

```

```

<400> 10
tttttttttt ttcccaaagg cctcaraaca ctagtcttct aattccaagc agaaagttac      60

```



atccgccggg	atacatgcc	cttggtttga	taaatcaaaa	tacagcatcc	ttcagatccc	120
tttgctgagc	aatacaatta	tttgtatatg	ttactttttt	ttctgtttgg	ctnaaaagatt	180
tgatatgagc	tgaggaaaat	gaagccttta	ctgctatnag	atctnatccc	tttccaccac	240
ctttcaggga	tnttggcact	gcayatatc	agaattcccc	nnagtcgctn	gtgataaaaa	300
tgtcttcaga	gatggcagaa	tatgtttcct	ttggtacatg	ttcattaaaa	atatacacgt	360
gctcactact	gtggatatgt	atgtnttgac	cgatnacaca	ggctgattta	gggaagagat	420
aaaagcacac	ttngaattta	ttagcctttc	accnagacta	anattctgaa	attaagaatg	480
tattccttgg	tcaacaattt	tcctcttctc	ttagccctct	tacattgtan	tggactga	538

<210> 11  
 <211> 543  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(543)  
 <223> n = A,T,C or G

tttttttttt	ttgccacag	ctgccatctt	tgtgtgataa	ggccaacctt	ctatgggaat	60
caaccctcgc	catcccagca	aatccctctc	ctcccttctc	atgggagtgc	cttgtattca	120
tcaggcatct	gggacttgat	gtgggtntgg	gatttgaaat	cagagcacct	nggtctctst	180
caccattctn	tcacttatta	gctctnacct	tgggtnaata	cctgccttag	tgtcntaggt	240
acaatatgaa	tattgtctat	ttctcaggga	ttgcaatgac	nagtnnatna	gtgcatgaga	300
gggtaaaacc	acaggggtact	cogctcctcc	naagaatgga	gaattttttc	tagaagccca	360
natntgcttg	gaagggttggc	caccnagagc	cnnaatcttc	ttttatttnc	cactgaangc	420
ctaagaggna	attctgaact	catcccccna	tgacctctcc	cgaatmagaa	tatctctggc	480
acttaccata	ttttcttggc	ctcttccact	tacnaaactc	ctttattcct	taacnggacg	540
aaa						543

<210> 12  
 <211> 329  
 <212> DNA  
 <213> Homo sapien

cgatgacttg	ggcagtgagt	gggcctcctg	ccaggtggca	gggcacagct	tagaccaaac	60
ccttggcctc	ccccctctgc	agstacctct	gaccaagaag	gaaactagca	agcctatgct	120
ggcaagacca	taggtggggg	gctgggaatc	ctcggggccg	gctggcaccc	actcctggtg	180
ctcaaggagg	agaccactt	gttcagatgc	atrggcctca	ggcggttcaa	ggcrgtctta	240
gagccacaga	gtcaaataaa	aatcaatttt	gagagaccac	agcacctgct	gctttgatcg	300
tgatgttcaa	ggcaagttgc	aagtcacgc				329

<210> 13  
 <211> 314  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(314)  
 <223> n = A,T,C or G

&lt;400&gt; 13

cgatgacttg	cacccgggag	ctgtgacagt	ggcctggaag	cagatggcag	ccccgtcaag	60
gcgggagtg	agaccaccaa	accctccaaa	cagagcaaca	actagtacgc	ggccagcagc	120
tacctgagcc	tgacgcccga	gcagtggaag	tcccacagaa	gctacagctg	ccaggtcacg	180
catgaaggga	gcaccgtgga	gaagacagt	gccctacag	aatgttcata	ggttcccnac	240
tctnacccca	cccacgggag	cctgganctg	cangatccc	ggggaagggt	ctctctcccc	300
atcccaagtc	atcg					314

&lt;210&gt; 14

&lt;211&gt; 691

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(691)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 14

cgattacttg	cacaatgcan	attagaaccc	aaatgaagg	tacaaccag	atcttctggc	60
ttccagttca	gtgctgctgg	gtttttctta	ctaaaccaa	acaatkaaga	gcatagaagg	120
gaagagaaga	ataaagtcta	ttttggtctt	tggtagcchg	ggtaangaga	atgctstcac	180
tctacnagaa	aaccnaagt	gaacccggct	aatcaggacc	gtgcttgga	aggagcagg	240
ggcattacct	ttcaacacca	gaggttcttt	gccttctctc	tgcagggact	cgargactat	300
gtgaagtggc	tgggarggca	tcactcggct	tggttcattg	gtrttctcat	cataaactat	360
natttctttg	gaaaaagatc	ctcttgaaag	artccttgcc	ttccctacag	gaaatcaagt	420
ctaggacagt	gatcttgccc	ctgcttgcas	tctccgcggg	ctgatcttat	csgscccagt	480
tkatgtgsam	cgctccttgg	atrtkactct	tgttttwctc	cvaggaagg	gcytgcmagt	540
ccnwtnaatg	amssgggccc	ttaactccgg	scrggtname	ncttgscctc	rattttgggt	600
ycytcttct	ttgscmgtg	tcktnaaac	cacttngttr	aattccccgg	sccgcctkcg	660
nggtycaacc	wttttgaggaa	mamcycccc	c			691

&lt;210&gt; 15

&lt;211&gt; 355

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(355)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 15

acctgaactg	tgtgttgaag	agtgatgtcc	tgctgcctgg	agctcaagtc	actactgatg	60
accgtgccta	tgtccgacag	ctagttncct	ccatggatgt	gactgagacc	aatgtcttct	120
tcyaccctcg	gctcttacct	ttgacnaagt	ctcccgttga	gagtactacc	gaaccaccag	180
cagttcgagc	ctctnaagag	cgtctaagcg	atggggatag	atatttactg	gagaatgggc	240
tcaacctctt	cctctgggtg	ggagcaagcg	tccagcagg	tggtgtccag	agccttttca	300
gcgtctcctc	cttcagtcag	atcaccagt	gtntgagtgt	tctgccagtt	caggt	355

&lt;210&gt; 16

&lt;211&gt; 522

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(522)  
 <223> n = A,T,C or G

<400> 16  
 tcagtccagt gaggtggaag acttcgaggc tcgtgggagc cgcttctcca agtctgctga 60  
 tgagagacag cgcattgctgg tgcagcgtan ggacgaactc ctccagcaag ctccgagacg 120  
 tttcttgaac aaaagtcttg aagatgatgc ggcttcagag agcttcctcc cctcggaagg 180  
 tgcgtcctct gaccccgatga cctnccgtcg aangatgctg gctgccgccg cggaacggan 240  
 gcttcagaag cagcagacct cctnccgtcg ccttgccctc ctccagctgcc tcctgcgccc 300  
 tgtgcccggc tgactggagg aggcctgtcc aattctgccc gcccattgga aaagcgggct 360  
 tgactgcatt gccgctgtat naaagcatgt ggtcttacag tgttnggacn gctnatnaat 420  
 ttnatcctnc tntgtaatac ttcctatgtg acatttctct tccccttggg aacactgcan 480  
 attttaactg tgagtttgat ctcttctngt gttactggac tg 522

<210> 17  
 <211> 317  
 <212> DNA  
 <213> Homo sapien

<400> 17  
 gtgtcgcgaa ttcgcggtgg tgctaagaaa aggaagaaga agtcttacac cactcccaag 60  
 aaggataagc accagagaaa gaaggttcag ccggccgtcc tgaaatatta taagggtggat 120  
 gagaatggca aaattagttg ccttcgtcga gagtgcctct ctgatgaatg tgggtgctggg 180  
 gtgtttatgg caagtcactt tgacagacat tattgtggca aatgttgtct gacccactgt 240  
 ttcaactaac cagaagacaa gtaactgtat gagttaatta aagacatgaa ctaaaaaaaaa 300  
 aaaaaaaaaa actcgag 317

<210> 18  
 <211> 392  
 <212> DNA  
 <213> Homo sapien

<400> 18  
 tggagatttc taatgaggtg aggaagttcc gtacattgac agaattgatc ctccatgctc 60  
 aggaacatgt taaaaatcct tacaaaggca aaaaactcaa gaaacaccca gacttcccca 120  
 agaagcccct gaccccttat ttccgcttct tcatggagaa gcgggccaag tatgcgaaac 180  
 tccaccctca gatgagcaac ctggacctga ccaagattct gtccaagaaa tacaaggagc 240  
 ttccggagaa gaagaagatg aaatatgttc cggacttcca gagaagagaa acaggagttc 300  
 gagcgaaacc tggcccgatt caggaggatg cccccccacc ttatccagaa tgccaagaat 360  
 cggacatccc agagaagccc caagaccccc cg 392

<210> 19  
 <211> 2624  
 <212> DNA  
 <213> Homo sapien

<400> 19  
 gaaacagtga gaaggagatt cctgtgctca atgagctgcc agtcccatg gtggcccgct 60  
 acattcgcatt aaaccctcag tcctggtttg ataacgggag catctgcatg aggatggaga 120  
 tcttgggctg cccactgccg gatcctaata actattatca ccgacgtaat gagatgacca 180  
 ccacggatga cctggatttt aagcaccaca actattagga aatgcgccag ttgatgaagg 240

ttgtcaatga	aatgtgcccc	aatattacca	ggattttacaa	cattggcaaaa	agccaccagg	300
gcttgaaatt	gtatgcggta	gagatctctg	accatcctgg	ggaacatgaa	gttggtgagc	360
ccgagttcca	ctacatcgca	ggggccacg	gcaatgaggt	tctgggacga	gaactgctgc	420
tgctgctgct	gcacttcctc	tgccaggaat	actcggcgca	gaacgcacgc	atcgtccgct	480
tggtggagga	gactcgaatc	cacattctac	cctccctcaa	tcctgatggc	tatgagaagg	540
cctatgaagg	aggttccgag	ttgggaggct	ggcctctggg	acgttgacc	catgatggca	600
tcgatatcaa	caacaacttt	cgggatttaa	actcgtgct	ctgggaggca	gaggaccagc	660
agaatgcccc	aaggaaggct	cccaaccact	acattgccat	ccctgagtgg	tttctgtctg	720
agaatgccac	agtggccaca	gagaccagag	ccgtcatcgc	ctggatggag	aagatcccgt	780
ttgtgctggg	aggcaacctt	caggggggtg	agctggctgt	ggcatacccc	tatgacatgg	840
tgcggtccct	gtggaagacc	caggagcaca	ccccaacacc	tgatgatcat	gtgttccgct	900
ggctggcgta	ttcctacgcc	tccactcacc	gcctcatgac	agatgccagg	aggcgagtgt	960
gccacacgga	agattttcag	aaggaggagg	gcaccgtcaa	tggggcttcc	tggcacacag	1020
tggttggaag	tctaaacgat	ttcagctacc	tccatacaaa	ctgctttgag	ctgtccatct	1080
acgtgggctg	tgataaatac	ccacacgaga	gcgagctgcc	ggaggaatgg	gagaataacc	1140
gggagtctct	gattgtgttc	atggagcagg	ttcatcgagg	catcaaaggc	atagtgaag	1200
atttacaagg	gaaagggatt	tcaaagtctg	tcatctctgt	ggaagggtgt	aaccatgaca	1260
tccggacacg	cagcgatggg	gattactggc	gtctactgaa	ccctggcgaa	tatgtgttca	1320
cagccaaggc	ggaaggcttt	atcacttcca	ccaagaactg	catggttggc	tatgatattg	1380
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tgagacatt	tgggaagcag	cctgtcagcc	taccctccag	gcgcctgaag	ctgcggggac	1500
ggaaaaggcg	gcagcgtggg	tgacctgtc	ggacacttga	gacatacccc	agaccgtgca	1560
aataaaaaatc	cactccagta	gtaactctgt	agcaggcttt	ccctgttggt	ttgactgtaa	1620
ttcaagagac	actcaggagc	atacctgcat	ggcttggtg	accccaaagg	ggagggctgg	1680
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&lt;210&gt; 20

&lt;211&gt; 488

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 20

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<212> DNA  
<213> Homo sapien

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&lt;210&gt; 24

&lt;211&gt; 1328

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 24

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&lt;210&gt; 25

&lt;211&gt; 1758

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 25

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&lt;210&gt; 26

&lt;211&gt; 493

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 26

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&lt;210&gt; 27

&lt;211&gt; 1331

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 27

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&lt;210&gt; 28

&lt;211&gt; 1333

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 28

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&lt;210&gt; 29

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 29

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&lt;210&gt; 30

&lt;211&gt; 1316

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 30

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gcaaaggcga	atgaagcagc	agcttgaggg	acttgcagac	ttacaacaaa	gcttgtgctc	900
atttcaagaa	aatggggacc	tggactgctc	aagttctaca	tcaggatcct	tgctacctcc	960
tgaggaccac	cagtaaaagc	tgttcctcag	gaaaactgga	tggggcctcc	atgttctcca	1020
aggatcgagg	aagtcttctc	gcctaccctg	cccaccccag	tcaagggcag	caacaccaga	1080
gctttgctca	gccttaaatg	gaatcttaga	gctttctctt	gcttctgcta	ctcctacaga	1140
tggcctcatc	atggtctcca	ctcagtatta	ataactccat	cagcatagag	caaactcaac	1200
actgtgcatt	gcacactgtt	accatgggtt	tatgctcact	atcatatcac	attgccaata	1260
tttagcacac	ttaataaatg	cttgtcaaaa	ccccaaaaaa	aaaaaaaaaa	ctcgag	1316

&lt;210&gt; 31

&lt;211&gt; 1355

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 31

cggcgggtgga	tatccgagac	aatctgctgg	gaattttcttg	ggttgacagc	tcttggatcc	60
ctattttgaa	cagtggtagt	gtcctggatt	acttttcaga	aagaagtaat	cctttttatg	120
acagaacatg	taataatgaa	gtgggtcaaaa	tgcagaggct	aacattagaa	cacttgaatc	180
agatgggttg	aatcgagtac	atccttttgc	atgctcaaga	gcccattctt	ttcatcattc	240
ggaagcaaca	goggcagtc	cctgcccagg	ttatcccact	agctgattac	tatatcattg	300
ctggagtgat	ctatcaggca	ccagacttgg	gatcagttat	aaactctaga	gtgcttactg	360
cagtgcattg	tattcagtc	gcttttgatg	aagctatgtc	atactgtoga	tatcatcctt	420

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ccaaagggtta ttggtggcac ttcaaagatc atgaagagca agataaagtc agacctaaag 480
ccaaaaggaa agaagaacca agctctatatt ttccagagaca acgtgtggat gctttacttt 540
tagacctcag acaaaaattt ccacccaaat ttgtgcagct aaagcctgga gaaaagcctg 600
ttccagtggga tcaaacaaag aaagaggcag aacctatacc agaaactgta aaacctgagg 660
agaaggagac cacaaagaat gtacaacaga cagtgaagtgc taaaggcccc cctgaaaaac 720
ggatgagact tcagtgahta ctggacaaaa gagaagcctg gaagactoct catgctagtt 780
atcatacctc agtactgtgg ctcttgagct ttgaagtact ttattgtaac cttcttattt 840
gtatggaatg cgcttatttt ttgaaaggat attaggccgg atgtgggtggc tcacgcctgt 900
aatcccagca ctttggggagg ccatggcggg tggatcactt gaggtcagaa gttcaagacc 960
agcctgacca atatggtgaa acccgcgtctc tactaaaaat acaaaaatta gccgggctgt 1020
gtggcgggcg cccatagtcc cagctactcg ggaggctgag acaggagact tgcttgaacc 1080
cgggagggtg aggttgccct gagctgatta tcatgctgtt gcactccagc ttgggcgaca 1140
gaacgagact ttgtctcaaa aaaagaagaa aagatattat tcccatcatg atttcttggt 1200
aatatttggt atatgtcttc tggtaacctt tcctctcccg gacttgaagc aacctcacac 1260
actcacatgt ttactggtag ataatgttta aaagcaaaat aaaggtattt gtttttccaa 1320
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa tcgag 1355

```

```

<210> 32
<211> 80
<212> PRT
<213> Homo sapien

```

```

<400> 32
Val Ser Arg Ile Arg Gly Gly Ala Lys Lys Arg Lys Lys Lys Ser Tyr
1          5          10          15
Thr Thr Pro Lys Lys Asp Lys His Gln Arg Lys Lys Val Gln Pro Ala
20          25          30
Val Leu Lys Tyr Tyr Lys Val Asp Glu Asn Gly Lys Ile Ser Cys Leu
35          40          45
Arg Arg Glu Cys Pro Ser Asp Glu Cys Gly Ala Gly Val Phe Met Ala
50          55          60
Ser His Phe Asp Arg His Tyr Cys Gly Lys Cys Cys Leu Thr His Cys
65          70          75          80

```

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<210> 33
<211> 130
<212> PRT
<213> Homo sapien

```

```

<400> 33
Glu Ile Ser Asn Glu Val Arg Lys Phe Arg Thr Leu Thr Glu Leu Ile
1          5          10          15
Leu Asp Ala Gln Glu His Val Lys Asn Pro Tyr Lys Gly Lys Lys Leu
20          25          30
Lys Lys His Pro Asp Phe Pro Lys Lys Pro Leu Thr Pro Tyr Phe Arg
35          40          45
Phe Phe Met Glu Lys Arg Ala Lys Tyr Ala Lys Leu His Pro Gln Met
50          55          60
Ser Asn Leu Asp Leu Thr Lys Ile Leu Ser Lys Lys Tyr Lys Glu Leu
65          70          75          80
Pro Glu Lys Lys Lys Met Lys Tyr Val Pro Asp Phe Gln Arg Arg Glu
85          90          95
Thr Gly Val Arg Ala Lys Pro Gly Pro Ile Gln Gly Gly Ser Pro Pro
100          105          110

```

Pro Tyr Pro Glu Cys Gln Glu Ser Asp Ile Pro Glu Lys Pro Gln Asp  
 115 120 125

Pro Pro  
 130

<210> 34  
 <211> 506  
 <212> PRT  
 <213> Homo sapien

<400> 34

Asn	Ser	Glu	Lys	Glu	Ile	Pro	Val	Leu	Asn	Glu	Leu	Pro	Val	Pro	Met
1			5					10					15		
Val	Ala	Arg	Tyr	Ile	Arg	Ile	Asn	Pro	Gln	Ser	Trp	Phe	Asp	Asn	Gly
			20				25					30			
Ser	Ile	Cys	Met	Arg	Met	Glu	Ile	Leu	Gly	Cys	Pro	Leu	Pro	Asp	Pro
		35				40						45			
Asn	Asn	Tyr	Tyr	His	Arg	Arg	Asn	Glu	Met	Thr	Thr	Thr	Asp	Asp	Leu
	50				55					60					
Asp	Phe	Lys	His	His	Asn	Tyr	Lys	Glu	Met	Arg	Gln	Leu	Met	Lys	Val
65				70				75						80	
Val	Asn	Glu	Met	Cys	Pro	Asn	Ile	Thr	Arg	Ile	Tyr	Asn	Ile	Gly	Lys
				85				90					95		
Ser	His	Gln	Gly	Leu	Lys	Leu	Tyr	Ala	Val	Glu	Ile	Ser	Asp	His	Pro
			100				105					110			
Gly	Glu	His	Glu	Val	Gly	Glu	Pro	Glu	Phe	His	Tyr	Ile	Ala	Gly	Ala
		115				120						125			
His	Gly	Asn	Glu	Val	Leu	Gly	Arg	Glu	Leu	Leu	Leu	Leu	Leu	Leu	His
	130				135					140					
Phe	Leu	Cys	Gln	Glu	Tyr	Ser	Ala	Gln	Asn	Ala	Arg	Ile	Val	Arg	Leu
145				150					155						160
Val	Glu	Glu	Thr	Arg	Ile	His	Ile	Leu	Pro	Ser	Leu	Asn	Pro	Asp	Gly
				165				170						175	
Tyr	Glu	Lys	Ala	Tyr	Glu	Gly	Gly	Ser	Glu	Leu	Gly	Gly	Trp	Ser	Leu
			180				185						190		
Gly	Arg	Trp	Thr	His	Asp	Gly	Ile	Asp	Ile	Asn	Asn	Asn	Phe	Pro	Asp
		195				200						205			
Leu	Asn	Ser	Leu	Leu	Trp	Glu	Ala	Glu	Asp	Gln	Gln	Asn	Ala	Pro	Arg
	210				215						220				
Lys	Val	Pro	Asn	His	Tyr	Ile	Ala	Ile	Pro	Glu	Trp	Phe	Leu	Ser	Glu
225				230					235						240
Asn	Ala	Thr	Val	Ala	Thr	Glu	Thr	Arg	Ala	Val	Ile	Ala	Trp	Met	Glu
				245				250						255	
Lys	Ile	Pro	Phe	Val	Leu	Gly	Gly	Asn	Leu	Gln	Gly	Gly	Glu	Leu	Val
			260				265						270		
Val	Ala	Tyr	Pro	Tyr	Asp	Met	Val	Arg	Ser	Leu	Trp	Lys	Thr	Gln	Glu
		275				280						285			
His	Thr	Pro	Thr	Pro	Asp	Asp	His	Val	Phe	Arg	Trp	Leu	Ala	Tyr	Ser
	290				295						300				
Tyr	Ala	Ser	Thr	His	Arg	Leu	Met	Thr	Asp	Ala	Arg	Arg	Arg	Val	Cys
305				310					315						320
His	Thr	Glu	Asp	Phe	Gln	Lys	Glu	Glu	Gly	Thr	Val	Asn	Gly	Ala	Ser
				325				330						335	
Trp	His	Thr	Val	Ala	Gly	Ser	Leu	Asn	Asp	Phe	Ser	Tyr	Leu	His	Thr

340 345 350  
 Asn Cys Phe Glu Leu Ser Ile Tyr Val Gly Cys Asp Lys Tyr Pro His  
 355 360 365  
 Glu Ser Glu Leu Pro Glu Glu Trp Glu Asn Asn Arg Glu Ser Leu Ile  
 370 375 380  
 Val Phe Met Glu Gln Val His Arg Gly Ile Lys Gly Ile Val Arg Asp  
 385 390 395 400  
 Leu Gln Gly Lys Gly Ile Ser Asn Ala Val Ile Ser Val Glu Gly Val  
 405 410 415  
 Asn His Asp Ile Arg Thr Ala Ser Asp Gly Asp Tyr Trp Arg Leu Leu  
 420 425 430  
 Asn Pro Gly Glu Tyr Val Val Thr Ala Lys Ala Glu Gly Phe Ile Thr  
 435 440 445  
 Ser Thr Lys Asn Cys Met Val Gly Tyr Asp Met Gly Ala Thr Arg Cys  
 450 455 460  
 Asp Phe Thr Leu Thr Lys Thr Asn Leu Ala Arg Ile Arg Glu Ile Met  
 465 470 475 480  
 Glu Thr Phe Gly Lys Gln Pro Val Ser Leu Pro Ser Arg Arg Leu Lys  
 485 490 495  
 Leu Arg Gly Arg Lys Arg Arg Gln Arg Gly  
 500 505

&lt;210&gt; 35

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 35

Met Asn Gly Glu Ala Asp Cys Pro Thr Asp Leu Glu Met Ala Ala Pro  
 1 5 10 15  
 Arg Gly Gln Asp Arg Trp Ser Gln Glu Asp Met Leu Thr Leu Leu Glu  
 20 25 30  
 Cys Met Lys Asn Asn Leu Pro Ser Asn Asp Ser Ser Gln Phe Lys Thr  
 35 40 45  
 Thr Gln Thr His Met Asp Arg Glu Lys Val Ala Leu Lys Asp Phe Ser  
 50 55 60  
 Gly Asp Met Cys Lys Leu Lys Trp Val Glu Ile Ser Asn Glu Val Arg  
 65 70 75 80  
 Lys Phe Arg Thr Leu Thr Glu Leu Ile Leu Asp Thr Gln Glu His Val  
 85 90 95

&lt;210&gt; 36

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 36

Gly Ile Val Val Phe Ser Leu Gly Ser Met Val Ser Glu Ile Pro Glu  
 1 5 10 15  
 Lys Lys Ala Val Ala Ile Ala Asp Ala Leu Gly Lys Ile Pro Gln Thr  
 20 25 30  
 Val Leu Trp Arg Tyr Thr Gly Thr Arg Pro Ser Asn Leu Ala Asn Asn  
 35 40 45  
 Thr Ile Leu Val Gln Trp Leu Pro Gln Asn Asp Leu Leu Gly His Pro

50                      55                      60  
 Met Thr Arg Ala Phe Ile Thr His Ala Ser Ser His Gly Val Asn Glu  
 65                      70                      75                      80  
 Ser Ile Cys Asn Gly Val Pro Met Val Met Ile Pro Leu Phe Gly Asp  
                     85                      90                      95  
 Gln Met Asp Asn Ala Lys Arg Arg Glu Thr Lys Gly Ala Gly Val Thr  
                     100                      105                      110  
 Leu Asn Val Leu Glu Met Thr Ser Glu Asp Leu Glu Asp Ala Leu Lys  
                     115                      120                      125  
 Ser

<210> 37  
 <211> 238  
 <212> PRT  
 <213> Homo sapien

<400> 37  
 Asn Leu Leu Gly Ile Ser Trp Val Asp Ser Ser Trp Ile Pro Ile Leu  
 1                      5                      10                      15  
 Asn Ser Gly Ser Val Leu Asp Tyr Phe Ser Glu Arg Ser Asn Pro Phe  
                     20                      25                      30  
 Tyr Asp Arg Thr Cys Asn Asn Glu Val Val Lys Met Gln Arg Leu Thr  
                     35                      40                      45  
 Leu Glu His Leu Asn Gln Met Val Gly Ile Glu Tyr Ile Leu Leu His  
                     50                      55                      60  
 Ala Gln Glu Pro Ile Leu Phe Ile Ile Arg Lys Gln Gln Arg Gln Ser  
 65                      70                      75                      80  
 Pro Ala Gln Val Ile Pro Leu Ala Asp Tyr Tyr Ile Ile Ala Gly Val  
                     85                      90                      95  
 Ile Tyr Gln Ala Pro Asp Leu Gly Ser Val Ile Asn Ser Arg Val Leu  
                     100                      105                      110  
 Thr Ala Val His Gly Ile Gln Ser Ala Phe Asp Glu Ala Met Ser Tyr  
                     115                      120                      125  
 Cys Arg Tyr His Pro Ser Lys Gly Tyr Trp Trp His Phe Lys Asp His  
                     130                      135                      140  
 Glu Glu Gln Asp Lys Val Arg Pro Lys Ala Lys Arg Lys Glu Glu Pro  
 145                      150                      155                      160  
 Ser Ser Ile Phe Gln Arg Gln Arg Val Asp Ala Leu Leu Leu Asp Leu  
                     165                      170                      175  
 Arg Gln Lys Phe Pro Pro Lys Phe Val Gln Leu Lys Pro Gly Glu Lys  
                     180                      185                      190  
 Pro Val Pro Val Asp Gln Thr Lys Lys Glu Ala Glu Pro Ile Pro Glu  
                     195                      200                      205  
 Thr Val Lys Pro Glu Glu Lys Glu Thr Thr Lys Asn Val Gln Gln Thr  
                     210                      215                      220  
 Val Ser Ala Lys Gly Pro Pro Glu Lys Arg Met Arg Leu Gln  
                     225                      230                      235

<210> 38  
 <211> 202  
 <212> PRT  
 <213> Homo sapien

<400> 38  
 Lys Gly Ser Glu Gly Glu Asn Pro Leu Thr Val Pro Gly Arg Glu Lys  
 1 5 10 15  
 Glu Gly Met Leu Met Gly Val Lys Pro Gly Glu Asp Ala Ser Gly Pro  
 20 25 30  
 Ala Glu Asp Leu Val Arg Arg Ser Glu Lys Asp Thr Ala Ala Val Val  
 35 40 45  
 Ser Arg Gln Gly Ser Ser Leu Asn Leu Phe Glu Asp Val Gln Ile Thr  
 50 55 60  
 Glu Pro Glu Ala Glu Pro Glu Ser Lys Ser Glu Pro Arg Pro Pro Ile  
 65 70 75 80  
 Ser Ser Pro Arg Ala Pro Gln Thr Arg Ala Val Lys Pro Arg Leu His  
 85 90 95  
 Pro Val Lys Pro Met Asn Ala Thr Ala Thr Lys Val Ala Asn Cys Ser  
 100 105 110  
 Leu Gly Thr Ala Thr Ile Ile Gly Glu Asn Leu Asn Asn Glu Val Met  
 115 120 125  
 Met Lys Lys Tyr Ser Pro Ser Asp Pro Ala Phe Ala Tyr Ala Gln Leu  
 130 135 140  
 Thr His Asp Glu Leu Ile Gln Leu Val Leu Lys Gln Lys Glu Thr Ile  
 145 150 155 160  
 Ser Lys Lys Glu Phe Gln Val Arg Glu Leu Glu Asp Tyr Ile Asp Asn  
 165 170 175  
 Leu Leu Val Arg Val Met Glu Glu Thr Pro Asn Ile Leu Arg Ile Pro  
 180 185 190  
 Thr Gln Val Gly Lys Lys Ala Gly Lys Met  
 195 200

<210> 39  
 <211> 243  
 <212> PRT  
 <213> Homo sapien

<400> 39  
 Val Asn Ala Leu Gly Ile Met Ala Ala Val Asp Ile Arg Asp Asn Leu  
 1 5 10 15  
 Leu Gly Ile Ser Trp Val Asp Ser Ser Trp Ile Pro Ile Leu Asn Ser  
 20 25 30  
 Gly Ser Val Leu Asp Tyr Phe Ser Glu Arg Ser Asn Pro Phe Tyr Asp  
 35 40 45  
 Arg Thr Cys Asn Asn Glu Val Val Lys Met Gln Arg Leu Thr Leu Glu  
 50 55 60  
 His Leu Asn Gln Met Val Gly Ile Glu Tyr Ile Leu Leu His Ala Gln  
 65 70 75 80  
 Glu Pro Ile Leu Phe Ile Ile Arg Lys Gln Gln Arg Gln Ser Pro Ala  
 85 90 95  
 Gln Val Ile Pro Leu Ala Asp Tyr Tyr Ile Ile Ala Gly Val Ile Tyr  
 100 105 110  
 Gln Ala Pro Asp Leu Gly Ser Val Ile Asn Ser Arg Val Leu Thr Ala  
 115 120 125  
 Val His Gly Ile Gln Ser Ala Phe Asp Glu Ala Met Ser Tyr Cys Arg  
 130 135 140  
 Tyr His Pro Ser Lys Gly Tyr Trp Trp His Phe Lys Asp His Glu Glu  
 145 150 155 160

Gln Asp Lys Val Arg Pro Lys Ala Lys Arg Lys Glu Glu Pro Ser Ser  
                           165                          170                          175  
 Ile Phe Gln Arg Gln Arg Val Asp Ala Leu Leu Leu Asp Leu Arg Gln  
                           180                          185                          190  
 Lys Ile Ser Thr Gln Ile Cys Ala Val Asp Gln Thr Lys Lys Glu Ala  
                           195                          200                          205  
 Glu Pro Ile Pro Glu Thr Val Lys Pro Glu Glu Lys Glu Thr Thr Lys  
                           210                          215                          220  
 Asn Val Gln Gln Thr Val Ser Ala Lys Gly Pro Pro Glu Lys Arg Met  
 225                          230                          235                          240  
 Arg Leu Gln

<210> 40  
 <211> 245  
 <212> PRT  
 <213> Homo sapien

<400> 40  
 Ala Ala Val Asp Ile Arg Asp Asn Leu Leu Gly Ile Ser Trp Val Asp  
 1                          5                          10                          15  
 Ser Ser Trp Ile Pro Ile Leu Asn Ser Gly Ser Val Leu Asp Tyr Phe  
                           20                          25                          30  
 Ser Glu Arg Ser Asn Pro Phe Tyr Asp Arg Thr Cys Asn Asn Glu Val  
                           35                          40                          45  
 Val Lys Met Gln Arg Leu Thr Leu Glu His Leu Asn Gln Met Val Gly  
                           50                          55                          60  
 Ile Glu Tyr Ile Leu Leu His Ala Gln Glu Pro Ile Leu Phe Ile Ile  
 65                          70                          75                          80  
 Arg Lys Gln Gln Arg Gln Ser Pro Ala Gln Val Ile Pro Leu Ala Asp  
                           85                          90                          95  
 Tyr Tyr Ile Ile Ala Gly Val Ile Tyr Gln Ala Pro Asp Leu Gly Ser  
                           100                          105                          110  
 Val Ile Asn Ser Arg Val Leu Thr Ala Val His Gly Ile Gln Ser Ala  
                           115                          120                          125  
 Phe Asp Glu Ala Met Ser Tyr Cys Arg Tyr His Pro Ser Lys Gly Tyr  
                           130                          135                          140  
 Trp Trp His Phe Lys Asp His Glu Glu Gln Asp Lys Val Arg Pro Lys  
 145                          150                          155                          160  
 Ala Lys Arg Lys Glu Glu Pro Ser Ser Ile Phe Gln Arg Gln Arg Val  
                           165                          170                          175  
 Asp Ala Leu Leu Leu Asp Leu Arg Gln Lys Phe Pro Pro Lys Phe Val  
                           180                          185                          190  
 Gln Leu Lys Pro Gly Glu Lys Pro Val Pro Val Asp Gln Thr Lys Lys  
                           195                          200                          205  
 Glu Ala Glu Pro Ile Pro Glu Thr Val Lys Pro Glu Glu Lys Glu Thr  
                           210                          215                          220  
 Thr Lys Asn Val Gln Gln Thr Val Ser Ala Lys Gly Pro Pro Glu Lys  
 225                          230                          235                          240  
 Arg Met Arg Leu Gln  
                           245

<210> 41  
 <211> 163

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 41

Gly	Glu	Arg	Gln	Gly	Leu	Val	Ala	Arg	Ala	Arg	Leu	Ser	Leu	Arg	Pro
1				5					10					15	
Ser	Ile	Pro	Glu	Leu	Ser	Glu	Arg	Thr	Ser	Arg	Pro	Cys	Arg	Ala	Ser
			20					25					30		
Pro	Ala	Ser	Leu	Pro	Ser	Gln	His	Thr	Ser	Ser	Pro	Ala	Gln	Ala	Arg
		35				40						45			
Val	Arg	Asn	Leu	Ala	Gln	Ser	Thr	Phe	Pro	Leu	Ala	Ala	Gln	Glu	Thr
	50				55						60				
Pro	Gly	Arg	Ala	Pro	Ala	His	Ala	Pro	Leu	Ser	Ser	Phe	Val	Pro	Gly
65					70					75					80
Val	Gly	Gly	Arg	Ser	Pro	Ala	Ser	Val	Gly	Ile	Ser	Ala	Pro	Gly	Gly
				85					90					95	
Gly	Pro	Ser	Gly	Ala	Ala	Ala	Lys	Ile	Pro	Leu	Glu	Leu	Thr	Gln	Ser
			100					105						110	
Arg	Val	Gln	Lys	Ile	Trp	Val	Pro	Val	Asp	His	Arg	Pro	Ser	Leu	Pro
		115				120						125			
Arg	Ser	Cys	Gly	Pro	Lys	Leu	Thr	Asn	Ser	Pro	Ala	Val	Phe	Val	Met
	130					135					140				
Val	Gly	Leu	Pro	Arg	Pro	Gly	Gln	Asp	Leu	Leu	Leu	His	Glu	Ser	Leu
145					150					155					160
Leu	Ala	Ala													

&lt;210&gt; 42

&lt;211&gt; 243

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 42

Val	Asp	Ile	Arg	Asp	Asn	Leu	Leu	Gly	Ile	Ser	Trp	Val	Asp	Ser	Ser
1				5					10					15	
Trp	Ile	Pro	Ile	Leu	Asn	Ser	Gly	Ser	Val	Leu	Asp	Tyr	Phe	Ser	Glu
			20					25					30		
Arg	Ser	Asn	Pro	Phe	Tyr	Asp	Arg	Thr	Cys	Asn	Asn	Glu	Val	Val	Lys
		35				40						45			
Met	Gln	Arg	Leu	Thr	Leu	Glu	His	Leu	Asn	Gln	Met	Val	Gly	Ile	Glu
	50				55						60				
Tyr	Ile	Leu	Leu	His	Ala	Gln	Glu	Pro	Ile	Leu	Phe	Ile	Ile	Arg	Lys
65				70					75						80
Gln	Gln	Arg	Gln	Ser	Pro	Ala	Gln	Val	Ile	Pro	Leu	Ala	Asp	Tyr	Tyr
			85						90					95	
Ile	Ile	Ala	Gly	Val	Ile	Tyr	Gln	Ala	Pro	Asp	Leu	Gly	Ser	Val	Ile
			100					105					110		
Asn	Ser	Arg	Val	Leu	Thr	Ala	Val	His	Gly	Ile	Gln	Ser	Ala	Phe	Asp
		115				120						125			
Glu	Ala	Met	Ser	Tyr	Cys	Arg	Tyr	His	Pro	Ser	Lys	Gly	Tyr	Trp	Trp
	130					135					140				
His	Phe	Lys	Asp	His	Glu	Glu	Gln	Asp	Lys	Val	Arg	Pro	Lys	Ala	Lys
145					150					155					160
Arg	Lys	Glu	Glu	Pro	Ser	Ser	Ile	Phe	Gln	Arg	Gln	Arg	Val	Asp	Ala



				165					170					175			
Leu	Leu	Leu	Asp	Leu	Arg	Gln	Lys	Phe	Pro	Pro	Lys	Phe	Val	Gln	Leu		
			180					185					190				
Lys	Pro	Gly	Glu	Lys	Pro	Val	Pro	Val	Asp	Gln	Thr	Lys	Lys	Glu	Ala		
		195					200					205					
Glu	Pro	Ile	Pro	Glu	Thr	Val	Lys	Pro	Glu	Glu	Lys	Glu	Thr	Thr	Lys		
	210					215					220						
Asn	Val	Gln	Gln	Thr	Val	Ser	Ala	Lys	Gly	Pro	Pro	Glu	Lys	Arg	Met		
225					230					235					240		
Arg	Leu	Gln															

&lt;210&gt; 43

&lt;211&gt; 244

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 43

Ala	Val	Asp	Ile	Arg	Asp	Asn	Leu	Leu	Gly	Ile	Ser	Trp	Val	Asp	Ser		
1				5					10					15			
Ser	Trp	Ile	Pro	Ile	Leu	Asn	Ser	Gly	Ser	Val	Leu	Asp	Tyr	Phe	Ser		
			20					25					30				
Glu	Arg	Ser	Asn	Pro	Phe	Tyr	Asp	Arg	Thr	Cys	Asn	Asn	Glu	Val	Val		
		35					40					45					
Lys	Met	Gln	Arg	Leu	Thr	Leu	Glu	His	Leu	Asn	Gln	Met	Val	Gly	Ile		
	50					55				60							
Glu	Tyr	Ile	Leu	Leu	His	Ala	Gln	Glu	Pro	Ile	Leu	Phe	Ile	Ile	Arg		
65					70					75					80		
Lys	Gln	Gln	Arg	Gln	Ser	Pro	Ala	Gln	Val	Ile	Pro	Leu	Ala	Asp	Tyr		
				85					90					95			
Tyr	Ile	Ile	Ala	Gly	Val	Ile	Tyr	Gln	Ala	Pro	Asp	Leu	Gly	Ser	Val		
			100					105					110				
Ile	Asn	Ser	Arg	Val	Leu	Thr	Ala	Val	His	Gly	Ile	Gln	Ser	Ala	Phe		
	115						120					125					
Asp	Glu	Ala	Met	Ser	Tyr	Cys	Arg	Tyr	His	Pro	Ser	Lys	Gly	Tyr	Trp		
	130					135					140						
Trp	His	Phe	Lys	Asp	His	Glu	Glu	Gln	Asp	Lys	Val	Arg	Pro	Lys	Ala		
145					150					155					160		
Lys	Arg	Lys	Glu	Glu	Pro	Ser	Ser	Ile	Phe	Gln	Arg	Gln	Arg	Val	Asp		
				165					170					175			
Ala	Leu	Leu	Leu	Asp	Leu	Arg	Gln	Lys	Phe	Pro	Pro	Lys	Phe	Val	Gln		
		180						185					190				
Leu	Lys	Pro	Gly	Glu	Lys	Pro	Val	Pro	Val	Asp	Gln	Thr	Lys	Lys	Glu		
		195					200					205					
Ala	Glu	Pro	Ile	Pro	Glu	Thr	Val	Lys	Pro	Glu	Glu	Lys	Glu	Thr	Thr		
	210					215					220						
Lys	Asn	Val	Gln	Gln	Thr	Val	Ser	Ala	Lys	Gly	Pro	Pro	Glu	Lys	Arg		
225					230					235					240		
Met	Arg	Leu	Gln														

&lt;210&gt; 44

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 44

Glu	Leu	His	Phe	Ser	Glu	Phe	Thr	Ser	Ala	Val	Ala	Asp	Met	Lys	Asn
1				5					10					15	
Ser	Val	Ala	Asp	Arg	Asp	Asn	Ser	Pro	Ser	Ser	Cys	Ala	Gly	Leu	Phe
			20					25					30		
Ile	Ala	Ser	His	Ile	Gly	Phe	Asp	Trp	Pro	Gly	Val	Trp	Val	His	Leu
		35					40					45			
Asp	Ile	Ala	Ala	Pro	Val	His	Ala	Gly	Glu	Arg	Ala	Thr	Gly	Phe	Gly
	50					55					60				
Val	Ala	Leu	Leu	Leu	Ala	Leu	Phe	Gly	Arg	Ala	Ser	Glu	Asp	Pro	Leu
65					70					75					80
Leu	Asn	Leu	Val	Ser	Pro	Leu	Asp	Cys	Glu	Val	Asp	Ala	Gln	Glu	Gly
				85					90					95	
Asp	Asn	Met	Gly	Arg	Asp	Ser	Lys	Arg	Arg	Arg	Leu	Val			
			100					105							

&lt;210&gt; 45

&lt;211&gt; 324

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 45

Arg	Arg	Pro	Val	Met	Ala	Gln	Glu	Thr	Ala	Pro	Pro	Cys	Gly	Pro	Val
1				5					10					15	
Ser	Arg	Gly	Asp	Ser	Pro	Ile	Ile	Glu	Lys	Met	Glu	Lys	Arg	Thr	Cys
			20					25					30		
Ala	Leu	Cys	Pro	Glu	Gly	His	Glu	Trp	Ser	Gln	Ile	Tyr	Phe	Ser	Pro
		35					40					45			
Ser	Gly	Asn	Ile	Val	Ala	His	Glu	Asn	Cys	Leu	Leu	Tyr	Ser	Ser	Gly
	50					55					60				
Leu	Val	Glu	Cys	Glu	Thr	Leu	Asp	Leu	Arg	Asn	Thr	Ile	Arg	Asn	Phe
65					70					75					80
Asp	Val	Lys	Ser	Val	Lys	Lys	Glu	Ile	Trp	Arg	Gly	Arg	Arg	Leu	Lys
				85					90					95	
Cys	Ser	Phe	Cys	Asn	Lys	Gly	Gly	Ala	Thr	Val	Gly	Cys	Asp	Leu	Trp
			100					105					110		
Phe	Cys	Lys	Lys	Ser	Tyr	His	Tyr	Val	Cys	Ala	Lys	Lys	Asp	Gln	Ala
		115					120						125		
Ile	Leu	Gln	Val	Asp	Gly	Asn	His	Gly	Thr	Tyr	Lys	Leu	Phe	Cys	Pro
	130					135					140				
Glu	His	Ser	Pro	Glu	Gln	Glu	Glu	Ala	Thr	Glu	Ser	Ala	Asp	Asp	Pro
145					150					155					160
Ser	Met	Lys	Lys	Lys	Arg	Gly	Lys	Asn	Lys	Arg	Leu	Ser	Ser	Gly	Pro
				165					170					175	
Pro	Ala	Gln	Pro	Lys	Thr	Met	Lys	Cys	Ser	Asn	Ala	Lys	Arg	His	Met
			180					185					190		
Thr	Glu	Glu	Pro	His	Gly	His	Thr	Asp	Ala	Ala	Val	Lys	Ser	Pro	Phe
		195					200						205		
Leu	Lys	Lys	Cys	Gln	Glu	Ala	Gly	Leu	Leu	Thr	Glu	Leu	Phe	Glu	His
	210					215					220				
Ile	Leu	Glu	Asn	Met	Asp	Ser	Val	His	Gly	Arg	Leu	Val	Asp	Glu	Thr
225					230					235					240

Ala Ser Glu Ser Asp Tyr Glu Gly Ile Glu Thr Leu Leu Phe Asp Cys  
                           245                          250                          255  
 Gly Leu Phe Lys Asp Thr Leu Arg Lys Phe Gln Glu Val Ile Lys Ser  
                           260                          265                          270  
 Lys Ala Cys Glu Trp Glu Glu Arg Gln Arg Gln Met Lys Gln Gln Leu  
                           275                          280                          285  
 Glu Ala Leu Ala Asp Leu Gln Gln Ser Leu Cys Ser Phe Gln Glu Asn  
                           290                          295                          300  
 Gly Asp Leu Asp Cys Ser Ser Ser Thr Ser Gly Ser Leu Leu Pro Pro  
 305                          310                          315                          320  
 Glu Asp His Gln

<210> 46  
 <211> 244  
 <212> PRT  
 <213> Homo sapien

<400> 46  
 Ala Val Asp Ile Arg Asp Asn Leu Leu Gly Ile Ser Trp Val Asp Ser  
   1                          5                          10                          15  
 Ser Trp Ile Pro Ile Leu Asn Ser Gly Ser Val Leu Asp Tyr Phe Ser  
                           20                          25                          30  
 Glu Arg Ser Asn Pro Phe Tyr Asp Arg Thr Cys Asn Asn Glu Val Val  
                           35                          40                          45  
 Lys Met Gln Arg Leu Thr Leu Glu His Leu Asn Gln Met Val Gly Ile  
                           50                          55                          60  
 Glu Tyr Ile Leu Leu His Ala Gln Glu Pro Ile Leu Phe Ile Ile Arg  
 65                          70                          75                          80  
 Lys Gln Gln Arg Gln Ser Pro Ala Gln Val Ile Pro Leu Ala Asp Tyr  
                           85                          90                          95  
 Tyr Ile Ile Ala Gly Val Ile Tyr Gln Ala Pro Asp Leu Gly Ser Val  
                           100                          105                          110  
 Ile Asn Ser Arg Val Leu Thr Ala Val His Gly Ile Gln Ser Ala Phe  
                           115                          120                          125  
 Asp Glu Ala Met Ser Tyr Cys Arg Tyr His Pro Ser Lys Gly Tyr Trp  
 130                          135                          140  
 Trp His Phe Lys Asp His Glu Glu Gln Asp Lys Val Arg Pro Lys Ala  
 145                          150                          155                          160  
 Lys Arg Lys Glu Glu Pro Ser Ser Ile Phe Gln Arg Gln Arg Val Asp  
                           165                          170                          175  
 Ala Leu Leu Leu Asp Leu Arg Gln Lys Phe Pro Pro Lys Phe Val Gln  
                           180                          185                          190  
 Leu Lys Pro Gly Glu Lys Pro Val Pro Val Asp Gln Thr Lys Lys Glu  
                           195                          200                          205  
 Ala Glu Pro Ile Pro Glu Thr Val Lys Pro Glu Glu Lys Glu Thr Thr  
                           210                          215                          220  
 Lys Asn Val Gln Gln Thr Val Ser Ala Lys Gly Pro Pro Glu Lys Arg  
 225                          230                          235                          240  
 Met Arg Leu Gln

<210> 47  
 <211> 14

<212> DNA  
<213> Homo sapien

<400> 47  
tttttttttt ttag 14

<210> 48  
<211> 10  
<212> DNA  
<213> Homo sapien

<400> 48  
cttcaacctc 10

<210> 49  
<211> 496  
<212> DNA  
<213> Homo sapien

<400> 49  
gcaccatgta ccgagcaactt cggctcctcg cgcgctcgcg tcccctcgtg cgggctccag 60  
ccgcagcctt agcttcgggt cccggcttgg gtggcgcggc cgtgccctcg ttttggcctc 120  
cgaacgcggc tcgaatggca agccaaaatt ccttcggat agaatatgat acctttggtg 180  
aactaaaggt gccaaatgat aagtattatg gcgccagac cgtgagatct acgatgaact 240  
ttaagattgg aggtgtgaca gaacgcatgc caaccccagt tattaaagct tttggcatct 300  
tgaagcgagc ggccgctgaa gtaaaccagg attatggtct tgatccaaag attgctaattg 360  
caataatgaa ggcagcagat gaggtagctg aaggtaaatt aaatgatcat tttcctctcg 420  
tggtatggca gactggatca ggaactcaga caaatatgaa tgtaaatgaa gtcattagcc 480  
aatagagcaa ttgaaa 496

<210> 50  
<211> 499  
<212> DNA  
<213> Homo sapien

<400> 50  
agaaaaagtc tatgtttgca gaaatacaga tccaagacaa agacaggatg ggactgctg 60  
gaaaagttat taaatgcaaa gcagctgtgc tttgggagca gaagcaaccc ttctccattg 120  
aggaaataga agttgcccc ccaaagacta aagaagttcg cattaagatt ttggccacag 180  
gaatctgtcg cacagatgac catgtgataa aaggaacaat ggtgtccaag tttccagtga 240  
ttgtgggaca tgaggcaact gggattgtag agagcattgg agaaggagtg actacagtga 300  
aaccaggtga caaagtcatc cctctctttc tgccacaatg tagagaatgc aatgcttgtc 360  
gcaaccacga tggcaacctt tgcattagga gcgatattac tggtcgtgga gtactggctg 420  
atggcaccac cagatttaca tgcaagggcg aaccagtcca ccacttcatg aacaccagta 480  
catttaccga gtacacagt 499

<210> 51  
<211> 887  
<212> DNA  
<213> Homo sapien

<400> 51  
gagtctgagc agaaaggaaa agcagccttg gcagccacgt tagagggaata caaagccaca 60  
gtggccagtg accagataga gatgaatcgc ctgaaggctc agctggagaa tgaaaagcag 120

aaagtggcag	agctgtattc	tatccataac	tctggagaca	aatctgatat	tcaggacctc	180
ctggagagtg	tcaggctgga	caaagaaaaa	gcagagactt	tggttagtag	cttgaggaa	240
gatctggctc	ataccgaaa	tgatgccaat	cgattacagg	atgccattgc	taaggtagag	300
gatgaatacc	gagccttcca	agaagaagct	aagaaacaaa	ttgaagattt	gaatatgacg	360
ttagaaaaat	taagatcaga	cctggatgaa	aaagaaacag	aaaggagtga	catgaaagaa	420
accatctttg	aacttgaaga	tgaagtagaa	caacatcggt	ctgtgaaact	tcatgacaac	480
ctcattattt	ctgatctaga	gaatacagtt	aaaaaactcc	aggacaaaa	gcacgacatg	540
gaaagagaaa	taaagacact	ccacagaaga	cttcgggaag	aatctgcgga	atggcggcag	600
tttcaggctg	atctccagac	tgcagtagtc	attgcaaatg	acattaaatc	tgaagcccaa	660
gaggagattg	gtgatctaaa	gcgccggtta	catgaggctc	aagaaaaaaa	tgagaaactc	720
acaaaagaat	tgaggaaaat	aaagtcacgc	aagcaagagg	aggagcgagg	cgggtataca	780
attacatgaa	tgccgttgag	agagatttgg	cagccttaag	gcagggaatg	ggactgagta	840
gaaggctctc	gacttctca	gagccaactc	ctacagtaaa	aaccctc		887

&lt;210&gt; 52

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 52

ggcacgagct	tttccaaaaa	tcagtctgct	cctttctcta	aagttcttac	attttataga	60
aaggaaacct	tcaactttga	ggcctactac	agctctcctc	aggatttgcc	ctatccagat	120
cctgctatag	ctcagttttc	agttcagaaa	gtcactcctc	agtctgatgg	ctccagttca	180
aaagtgaag	tcaaagttcg	agtaaattgc	catggcattt	tcagtgtgtc	cagtgcattc	240
ttagtggagg	ttcacaagtc	tgaggaaaat	gaggagccaa	tggaacaga	tcagaatgca	300
aaggaggaag	agaagatgca	agtggaccag	gaggaaccac	atggtgaaga	gcaacagcag	360
cagacaccag	gcagaaaata	aggcagagtc	tgaagaaatg	gagacctctc	aagctggatc	420
caaggataaa	aagatggacc	aaccacccca	agccaagaag	gcaaaagtga	agaccagtac	480
tgtaggacctg	g					491

&lt;210&gt; 53

&lt;211&gt; 787

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 53

aagcagttga	gtaggcagaa	aaaagaacct	cttcattaag	gattaaaatg	tataggccag	60
cacgtgtaac	ttcgacttca	agattttctga	atccatatgt	agtatgtttc	attgtcgtcg	120
caggggtagt	gaccttgga	gtcaccatag	ctctacttgt	ttacttttta	gcttttgatc	180
aaaaatctta	cttttatagg	agcagttttc	aactcctaaa	tgttgaatat	aatagtcagt	240
taaattcacc	agctacacag	gaatacagga	ctttgagtggt	aagaattgaa	tctctgatta	300
ctaaaacatt	caaagaatca	aatttaagaa	atcagttcat	cagagctcat	gttgccaaac	360
tgaggcaaga	tggtagtggg	gtgagagcgg	atgttgtcat	gaaatttcaa	ttcactagaa	420
ataacaatgg	agcatcaatg	aaaagcagaa	ttgagtctgt	tttacgacaa	atgctgaata	480
actctggaaa	cctggaaata	aacccttcaa	ctgagataac	atcacttact	gaccaggctg	540
cagcaaatgg	gcttattaat	gaatgtgggg	ccggtccaga	cctaataaca	ttgtctgagc	600
agagaatcct	tgagggcact	gaggctgagg	agggagctg	gccgtggcaa	gtcagctctgc	660
ggctcaataa	tgcccaccac	tgtggaggca	gcctgatcaa	taacatgtgg	atcctgacag	720
cagctcactg	cttcagaagc	aactctaata	ctcgtgactg	gattgccacg	tctggtatct	780
ccacaac						787

&lt;210&gt; 54

&lt;211&gt; 386

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 54

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ggcatttttca gtgtgtccag tgcattcttta gtggagggttc acaagtctga ggaaaatgag      60
gagccaatgg aaacagatca gaatgcaaag gaggaagaga agatgcaagt ggaccaggag      120
gaaccacatg ttgaagagca acagcagcag acaccagcag aaaataaggc agagtctgaa      180
gaaatggaga cctctcaagc tggatccaag gataaaaaga tggaccaacc accccaagcc      240
aagaaggcaa aagtgaagac cagtactgtg gacctgccaa tcgagaatca gctattatgg      300
cagatagaca gagagatgct caacttgtac attgaaaatg agggtaagat gatcatgcag      360
gataaactgg agaaggagcg gaatga                                     386

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&lt;210&gt; 55

&lt;211&gt; 1462

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 55

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aagcagttga gtaggcagaa aaaagaacct cttcattaag gattaaaatg tataggccag      60
cacgtgtaac ttcgacttca agatttctga atccatatgt agtatgtttc attgtcgtcg      120
caggggtagt gatcctggca gtcaccatag ctctacttgt ttacttttta gcttttgatc      180
aaaaatctta cttttatagg agcagttttc aactcctaaa tgttgaatat aatagtcagt      240
taaatccacc agctacacag gaatacagga ctttgagtgg aagaattgaa tctctgatta      300
ctaaaacatt caaagaatca aattttaagaa atcagttcat cagagctcat gttgccaaac      360
tgaggcaaga tggtagtggg gtgagagcgg atgttgtcat gaaatttcaa ttcactagaa      420
ataacaatgg agcatcaatg aaaagcagaa ttgagtctgt tttacgacaa atgctgaata      480
actctggaaa cctggaaata aacccttcaa ctgagataac atcacttact gaccaggctg      540
cagcaaattg gcttattaat gaatgtgggg ccggtccaga cctaataaca ttgtctgagc      600
agagaatcct tggaggcaat gaggctgagg aggggaagctg gccgtggcaa gtcagtctgc      660
ggctcaataa tgcccaccac tgtggaggga gcctgatcaa taacatgtgg atcctgacag      720
cagctcactg cttcagaagc aactctaate ctctgactg gattgccacg tctgggtattt      780
ccacaacatt tcctaaacta agaatgagag taagaaatat tttaattcat aacaattata      840
aatctgcaac tcattgaaat gacattgcac ttgtgagact tgagaacagt gtcaccttta      900
ccaaagatat ccatagtgtg tgtctcccag ctgctaccca gaatattcca cctggctcta      960
ctgcttatgt aacaggatgg ggcgctcaag aatatgctgg ccacacagtt ccagagctaa      1020
ggcaaggaca ggtcagaata ataagtaatg atgtatgtaa tgcaccacat agttataatg      1080
gagccatctt gtctggaatg ctgtgtgctg gactacctca aggtggagtg gacgcatgtc      1140
agggtgactc tgggtggcca ctagtacaag aagactcacg gcggctttgg tttattgtgg      1200
ggatagtaag ctggggagat cagtgtggcc tgccggataa gccaggagtg tatactcgag      1260
tgacagcata cattgactgg attaggcaac aaactgggat ctagtgcaac aagtgcattc      1320
ctgttgcaaa gtctgtatgc aggtgtgcct gtcttaaat ccaaagcttt acatttcaac      1380
tgaaaaagaa actagaaatg tcctaattta acatcttgtt acataaatat ggtttaacaa      1440
aaaaaaaaa aaaaaactcg ag                                     1462

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&lt;210&gt; 56

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 56

```

Thr Met Tyr Arg Ala Leu Arg Leu Leu Ala Arg Ser Arg Pro Leu Val
  1              5              10              15
Arg Ala Pro Ala Ala Ala Leu Ala Ser Ala Pro Gly Leu Gly Gly Ala
      20              25              30
Ala Val Pro Ser Phe Trp Pro Pro Asn Ala Ala Arg Met Ala Ser Gln

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<210> 57
<211> 165
<212> PRT
<213> Homo sapien
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<210> 58
<211> 259
<212> PRT
<213> Homo sapien
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<400> 58  
Glu Ser Glu Gln Lys Gly Lys Ala Ala Leu Ala Ala Thr Leu Glu Glu  
1 5 10 15  
Tyr Lys Ala Thr Val Ala Ser Asp Gln Ile Glu Met Asn Arg Leu Lys

20 25 30  
 Ala Gln Leu Glu Asn Glu Lys Gln Lys Val Ala Glu Leu Tyr Ser Ile  
 35 40 45  
 His Asn Ser Gly Asp Lys Ser Asp Ile Gln Asp Leu Leu Glu Ser Val  
 50 55 60  
 Arg Leu Asp Lys Glu Lys Ala Glu Thr Leu Ala Ser Ser Leu Gln Glu  
 65 70 75 80  
 Asp Leu Ala His Thr Arg Asn Asp Ala Asn Arg Leu Gln Asp Ala Ile  
 85 90 95  
 Ala Lys Val Glu Asp Glu Tyr Arg Ala Phe Gln Glu Glu Ala Lys Lys  
 100 105 110  
 Gln Ile Glu Asp Leu Asn Met Thr Leu Glu Lys Leu Arg Ser Asp Leu  
 115 120 125  
 Asp Glu Lys Glu Thr Glu Arg Ser Asp Met Lys Glu Thr Ile Phe Glu  
 130 135 140  
 Leu Glu Asp Glu Val Glu Gln His Arg Ala Val Lys Leu His Asp Asn  
 145 150 155 160  
 Leu Ile Ile Ser Asp Leu Glu Asn Thr Val Lys Lys Leu Gln Asp Gln  
 165 170 175  
 Lys His Asp Met Glu Arg Glu Ile Lys Thr Leu His Arg Arg Leu Arg  
 180 185 190  
 Glu Glu Ser Ala Glu Trp Arg Gln Phe Gln Ala Asp Leu Gln Thr Ala  
 195 200 205  
 Val Val Ile Ala Asn Asp Ile Lys Ser Glu Ala Gln Glu Glu Ile Gly  
 210 215 220  
 Asp Leu Lys Arg Arg Leu His Glu Ala Gln Glu Lys Asn Glu Lys Leu  
 225 230 235 240  
 Thr Lys Glu Leu Glu Glu Ile Lys Ser Arg Lys Gln Glu Glu Glu Arg  
 245 250 255  
 Gly Gly Tyr

<210> 59  
 <211> 125  
 <212> PRT  
 <213> Homo sapien

<400> 59  
 Gly Thr Ser Phe Ser Lys Asn His Ala Ala Pro Phe Ser Lys Val Leu  
 1 5 10 15  
 Thr Phe Tyr Arg Lys Glu Pro Phe Thr Leu Glu Ala Tyr Tyr Ser Ser  
 20 25 30  
 Pro Gln Asp Leu Pro Tyr Pro Asp Pro Ala Ile Ala Gln Phe Ser Val  
 35 40 45  
 Gln Lys Val Thr Pro Gln Ser Asp Gly Ser Ser Ser Lys Val Lys Val  
 50 55 60  
 Lys Val Arg Val Asn Val His Gly Ile Phe Ser Val Ser Ser Ala Ser  
 65 70 75 80  
 Leu Val Glu Val His Lys Ser Glu Glu Asn Glu Glu Pro Met Glu Thr  
 85 90 95  
 Asp Gln Asn Ala Lys Glu Glu Glu Lys Met Gln Val Asp Gln Glu Glu  
 100 105 110  
 Pro His Val Glu Glu Gln Gln Gln Thr Pro Gly Arg  
 115 120 125



<210> 60  
 <211> 246  
 <212> PRT  
 <213> Homo sapien

<400> 60

Met	Tyr	Arg	Pro	Ala	Arg	Val	Thr	Ser	Thr	Ser	Arg	Phe	Leu	Asn	Pro
1				5					10					15	
Tyr	Val	Val	Cys	Phe	Ile	Val	Val	Ala	Gly	Val	Val	Ile	Leu	Ala	Val
		20						25					30		
Thr	Ile	Ala	Leu	Leu	Val	Tyr	Phe	Leu	Ala	Phe	Asp	Gln	Lys	Ser	Tyr
		35					40					45			
Phe	Tyr	Arg	Ser	Ser	Phe	Gln	Leu	Leu	Asn	Val	Glu	Tyr	Asn	Ser	Gln
	50					55					60				
Leu	Asn	Ser	Pro	Ala	Thr	Gln	Glu	Tyr	Arg	Thr	Leu	Ser	Gly	Arg	Ile
65					70					75					80
Glu	Ser	Leu	Ile	Thr	Lys	Thr	Phe	Lys	Glu	Ser	Asn	Leu	Arg	Asn	Gln
				85					90					95	
Phe	Ile	Arg	Ala	His	Val	Ala	Lys	Leu	Arg	Gln	Asp	Gly	Ser	Gly	Val
			100					105					110		
Arg	Ala	Asp	Val	Val	Met	Lys	Phe	Gln	Phe	Thr	Arg	Asn	Asn	Asn	Gly
		115						120				125			
Ala	Ser	Met	Lys	Ser	Arg	Ile	Glu	Ser	Val	Leu	Arg	Gln	Met	Leu	Asn
		130				135					140				
Asn	Ser	Gly	Asn	Leu	Glu	Ile	Asn	Pro	Ser	Thr	Glu	Ile	Thr	Ser	Leu
145					150					155					160
Thr	Asp	Gln	Ala	Ala	Ala	Asn	Trp	Leu	Ile	Asn	Glu	Cys	Gly	Ala	Gly
			165					170						175	
Pro	Asp	Leu	Ile	Thr	Leu	Ser	Glu	Gln	Arg	Ile	Leu	Gly	Gly	Thr	Glu
			180					185					190		
Ala	Glu	Glu	Gly	Ser	Trp	Pro	Trp	Gln	Val	Ser	Leu	Arg	Leu	Asn	Asn
		195					200					205			
Ala	His	His	Cys	Gly	Gly	Ser	Leu	Ile	Asn	Asn	Met	Trp	Ile	Leu	Thr
	210					215					220				
Ala	Ala	His	Cys	Phe	Arg	Ser	Asn	Ser	Asn	Pro	Arg	Asp	Trp	Ile	Ala
225					230					235					240
Thr	Ser	Gly	Ile	Ser	Thr										
				245											

<210> 61  
 <211> 128  
 <212> PRT  
 <213> Homo sapien

<400> 61

Gly	Ile	Phe	Ser	Val	Ser	Ser	Ala	Ser	Leu	Val	Glu	Val	His	Lys	Ser
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Glu	Glu	Asn	Glu	Glu	Pro	Met	Glu	Thr	Asp	Gln	Asn	Ala	Lys	Glu	Glu
		20						25					30		
Glu	Lys	Met	Gln	Val	Asp	Gln	Glu	Glu	Pro	His	Val	Glu	Glu	Gln	Gln
		35					40					45			
Gln	Gln	Thr	Pro	Ala	Glu	Asn	Lys	Ala	Glu	Ser	Glu	Glu	Met	Glu	Thr
	50					55					60				

Ser Gln Ala Gly Ser Lys Asp Lys Lys Met Asp Gln Pro Pro Gln Ala  
 65 70 75 80  
 Lys Lys Ala Lys Val Lys Thr Ser Thr Val Asp Leu Pro Ile Glu Asn  
 85 90 95  
 Gln Leu Leu Trp Gln Ile Asp Arg Glu Met Leu Asn Leu Tyr Ile Glu  
 100 105 110  
 Asn Glu Gly Lys Met Ile Met Gln Asp Lys Leu Glu Lys Glu Arg Asn  
 115 120 125

<210> 62  
 <211> 418  
 <212> PRT  
 <213> Homo sapien

<400> 62  
 Met Tyr Arg Pro Ala Arg Val Thr Ser Thr Ser Arg Phe Leu Asn Pro  
 1 5 10 15  
 Tyr Val Val Cys Phe Ile Val Val Ala Gly Val Val Ile Leu Ala Val  
 20 25 30  
 Thr Ile Ala Leu Leu Val Tyr Phe Leu Ala Phe Asp Gln Lys Ser Tyr  
 35 40 45  
 Phe Tyr Arg Ser Ser Phe Gln Leu Leu Asn Val Glu Tyr Asn Ser Gln  
 50 55 60  
 Leu Asn Ser Pro Ala Thr Gln Glu Tyr Arg Thr Leu Ser Gly Arg Ile  
 65 70 75 80  
 Glu Ser Leu Ile Thr Lys Thr Phe Lys Glu Ser Asn Leu Arg Asn Gln  
 85 90 95  
 Phe Ile Arg Ala His Val Ala Lys Leu Arg Gln Asp Gly Ser Gly Val  
 100 105 110  
 Arg Ala Asp Val Val Met Lys Phe Gln Phe Thr Arg Asn Asn Gly  
 115 120 125  
 Ala Ser Met Lys Ser Arg Ile Glu Ser Val Leu Arg Gln Met Leu Asn  
 130 135 140  
 Asn Ser Gly Asn Leu Glu Ile Asn Pro Ser Thr Glu Ile Thr Ser Leu  
 145 150 155 160  
 Thr Asp Gln Ala Ala Ala Asn Trp Leu Ile Asn Glu Cys Gly Ala Gly  
 165 170 175  
 Pro Asp Leu Ile Thr Leu Ser Glu Gln Arg Ile Leu Gly Gly Thr Glu  
 180 185 190  
 Ala Glu Glu Gly Ser Trp Pro Trp Gln Val Ser Leu Arg Leu Asn Asn  
 195 200 205  
 Ala His His Cys Gly Gly Ser Leu Ile Asn Asn Met Trp Ile Leu Thr  
 210 215 220  
 Ala Ala His Cys Phe Arg Ser Asn Ser Asn Pro Arg Asp Trp Ile Ala  
 225 230 235 240  
 Thr Ser Gly Ile Ser Thr Thr Phe Pro Lys Leu Arg Met Arg Val Arg  
 245 250 255  
 Asn Ile Leu Ile His Asn Asn Tyr Lys Ser Ala Thr His Glu Asn Asp  
 260 265 270  
 Ile Ala Leu Val Arg Leu Glu Asn Ser Val Thr Phe Thr Lys Asp Ile  
 275 280 285  
 His Ser Val Cys Leu Pro Ala Ala Thr Gln Asn Ile Pro Pro Gly Ser  
 290 295 300  
 Thr Ala Tyr Val Thr Gly Trp Gly Ala Gln Glu Tyr Ala Gly His Thr

305                      310                      315                      320  
 Val Pro Glu Leu Arg Gln Gly Gln Val Arg Ile Ile Ser Asn Asp Val  
                                  325                      330                      335  
 Cys Asn Ala Pro His Ser Tyr Asn Gly Ala Ile Leu Ser Gly Met Leu  
                                  340                      345                      350  
 Cys Ala Gly Val Pro Gln Gly Gly Val Asp Ala Cys Gln Gly Asp Ser  
                                  355                      360                      365  
 Gly Gly Pro Leu Val Gln Glu Asp Ser Arg Arg Leu Trp Phe Ile Val  
                                  370                      375                      380  
 Gly Ile Val Ser Trp Gly Asp Gln Cys Gly Leu Pro Asp Lys Pro Gly  
 385                      390                      395                      400  
 Val Tyr Thr Arg Val Thr Ala Tyr Ile Asp Trp Ile Arg Gln Gln Thr  
                                  405                      410                      415  
 Gly Ile

<210> 63  
 <211> 776  
 <212> DNA  
 <213> Homo sapien

<400> 63  
 cacagatggt gatagaggaa tccatcttgc agtcagataa agccctcact gatagagaga 60  
 aggcagtagc agtggatcgg gccaagaagg aggcagctga gaaggaacag gaacttttaa 120  
 aacagaaatt acaggagcag ccagcaacag atggaggctc aagataagag tcgcaaggaa 180  
 aactagccaa ctgaaggaga agctgcagat ggagagagaa cacctactga gagagcagat 240  
 tatgatgttg gagcacacgc agaaggtcca aaatgattgg cttcatgaag gatttaagaa 300  
 gaagtatgag gagatgaatg cagagataag tcaatttaaa cgtatgattg atactacaaa 360  
 aaatgatgat actccctgga ttgcacgaac cttggacaac cttgccgatg agctaactgc 420  
 aatattgtct gtcctgcta aattaattgg tcatgggtgc aaaggtgtga gtcactctt 480  
 taaaaagcat aagctccctt tttaaggata ttatagattg tacatatatg ctttggacta 540  
 tttttgatct gtatgttttt catttttcatt cagcaagttt tttttttttt tcagagtctt 600  
 actctgttgc ccaggctgga gtacagtggg gcaatctcag ctactgcaa cctctgcctc 660  
 ctgggttcaa gagattcacc tgccctcagcc ccctagtagc tgggattata ggtgtacacc 720  
 accacacca gctaattttt gtatttttag tagagatggg gtttcactat gttggc 776

<210> 64  
 <211> 160  
 <212> DNA  
 <213> Homo sapien

<400> 64  
 gcagcgtct cggttgcaat acccaactgga aggacttagg cgctcgcgtg gacaccgcaa 60  
 gccctcagt agcctcggcc caagaggcct gctttccact cgctagcccc gccgggggtc 120  
 cgtgtcctgt ctcggtggcc ggacccgggc ccgagcccga 160

<210> 65  
 <211> 72  
 <212> PRT  
 <213> Homo sapien

<400> 65  
 Leu Ser Ala Met Gly Phe Thr Ala Ala Gly Ile Ala Ser Ser Ser Ile  
 1                      5                      10                      15

Ala Ala Lys Met Met Ser Ala Ala Ala Ile Ala Asn Gly Gly Gly Val  
 20 25 30  
 Ala Ser Gly Ser Leu Val Ala Thr Leu Gln Ser Leu Gly Ala Thr Gly  
 35 40 45  
 Leu Ser Gly Leu Thr Lys Phe Ile Leu Gly Ser Ile Gly Ser Ala Ile  
 50 55 60  
 Ala Ala Val Ile Ala Arg Phe Tyr  
 65 70

<210> 66  
 <211> 2581  
 <212> DNA  
 <213> Homo sapien

<400> 66

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gctccgcagg	gtgaggtggc	tttgacccc	ggttgcccgg	ccagcacgac	cgaggaggtg	120
gctggacagc	tggaggatga	acggagaagc	cgactgcccc	acagacctgg	aatggccgc	180
ccccaaaggc	caagaccgtt	ggtcccagga	agacatgctg	actttgctgg	aatgcatgaa	240
gaacaacctt	ccatccaatg	acagctccaa	gttcaaaacc	accgaatcac	acatggactg	300
ggaaaaagta	gcattttaaag	acttttctgg	agacatgtgc	aagctcaaat	gggtggagat	360
ttctaatagag	gtgaggaagt	tccgtacatt	gacagaattg	atcctcgatg	ctcaggaaca	420
tgttaaaaat	ccttacaag	gcaaaaaact	caagaaacac	ccagacttcc	caaagaagcc	480
cctgacccct	tatttccgct	tcttcatgga	gaagcggggc	aagtatgcga	aactccaccc	540
tgagatgagc	aacctggacc	taaccaagat	tctgtccaag	aaatacaagg	agcttccgga	600
gaagaagaag	atgaaatata	ttcaggactt	ccagagagag	aaacaggagt	tcgagcgaaa	660
cctggccccga	ttcagggagg	atcaccccga	cctaattccag	aatgccaaga	aatcggacat	720
cccagagaag	cccaaaaccc	cccagcagct	gtggtacacc	cacgagaaga	aggtgtatct	780
caaagtgcgg	ccagatgccca	ctacgaagga	ggtgaaggac	tccctgggga	agcagtggtc	840
tcagctctcg	gacaaaaaga	ggctgaaatg	gattcataag	gccctggagc	agcgggaagga	900
gtacgaggag	atcatgagag	actatatcca	gaagcaccca	gagctgaaca	tcagtgaagga	960
gggtatcacc	aagtccaccc	tcaccaaggc	cgaacgccag	ctcaaggaca	agtttgacgg	1020
gcgaccaccc	aagccacctc	cgaacagcta	ctcgtgttac	tgccgagagc	tcattggccaa	1080
catgaaggac	gtgcccagca	cagagcgcac	ggtgctgtgc	agccagcagt	ggaagctgct	1140
gtcccagaag	gagaaggacg	cctatcacaa	gaagtgtgat	cagaaaaaga	aagattacga	1200
ggtggagctg	ctccgtttcc	tcgagagcct	gcctgaggag	gagcagcagc	gggtcttggg	1260
ggaagagaag	atgctgaaca	tcaacaagaa	gcaggccacc	agccccgcct	ccaagaagcc	1320
agcccaggaa	gggggcaagg	gcggtctccga	gaagcccaag	cggcccgtgt	cggccatggt	1380
catcttctcg	gaggagaaac	ggcggcagct	gcaggaggag	cggcctgagc	tctccgagag	1440
cgagctgacc	cgcttctgtg	cccgaaatgtg	gaacgacctg	tctgagaaga	agaaggccaa	1500
gtacaaggcc	cgagaggcgg	cgctcaaggc	tcagtcggag	aggaagccc	gcggggagcg	1560
cgaggaacgg	ggcaagctgc	ccgagtcccc	caaaagagct	gaggagatct	ggcaacagag	1620
cgttatcggc	gactaccttg	cccgtttcaa	gaatgaccgg	gtgaaggcct	tgaaggccat	1680
ggaaatgacc	tggaaataaca	tggaaaagaa	ggagaaactg	atgtggatta	agaaggcagc	1740
cgaagaccaa	aagcgatatg	agagagagct	gagtgagatg	cgggcacctc	cagctgtctac	1800
aaattcttcc	aagaagatga	aattccagg	agaacccaag	aagcctccca	tgaacggtta	1860
ccagaagttc	tcccaggagc	tgctgtccaa	tggggagctg	aaccacctgc	cgctgaagga	1920
gcgcatgggtg	gagatcgcca	gtcgttgcca	gogcatctcc	cagagccaga	aggagcacta	1980
caaaaagctg	gccgaggagc	agcaaaagca	gtacaagggtg	cacctggacc	tctgggttaa	2040
gagcctgtct	ccccaggacc	gtgcagcata	taaagagtac	atctccaata	aacgtaagag	2100
catgaccaag	ctgcgaggcc	caaaccocaa	atccagccgg	actactctgc	agtccaagtc	2160
ggagtccgag	gaggatgatg	aagaggatga	ggatgacgag	gacgaggatg	aagaagagga	2220
agatgatgag	aatggggact	cctctgaaga	tggcggcgac	tcctctgagt	ccagcagcga	2280
ggacgagagc	gaggatgggg	atgagaatga	agaggatgac	gaggacgaag	acgacgacga	2340

ggatgacgat gaggatgaag ataatgagtc cgagggcagc agctccagct cctcctcctt 2400  
 aggggactcc tcagactttg actccaactg aggcttagcc ccaccccagg ggagccaggg 2460  
 agagcccagg agtccccctc cccaactgac cacctttgtt tcttccccat gttctgtccc 2520  
 ttgccccctt ggctccccc actttctttc tttcttttaa aaaaaaaaaa aaaaactcga 2580  
 g 2581

<210> 67  
 <211> 764  
 <212> PRT  
 <213> Homo sapien

<400> 67  
 Met Asn Gly Glu Ala Asp Cys Pro Thr Asp Leu Glu Met Ala Ala Pro  
 1 5 10 15  
 Lys Gly Gln Asp Arg Trp Ser Gln Glu Asp Met Leu Thr Leu Leu Glu  
 20 25 30  
 Cys Met Lys Asn Asn Leu Pro Ser Asn Asp Ser Ser Lys Phe Lys Thr  
 35 40 45  
 Thr Glu Ser His Met Asp Trp Glu Lys Val Ala Phe Lys Asp Phe Ser  
 50 55 60  
 Gly Asp Met Cys Lys Leu Lys Trp Val Glu Ile Ser Asn Glu Val Arg  
 65 70 75 80  
 Lys Phe Arg Thr Leu Thr Glu Leu Ile Leu Asp Ala Gln Glu His Val  
 85 90 95  
 Lys Asn Pro Tyr Lys Gly Lys Lys Leu Lys Lys His Pro Asp Phe Pro  
 100 105 110  
 Lys Lys Pro Leu Thr Pro Tyr Phe Arg Phe Phe Met Glu Lys Arg Ala  
 115 120 125  
 Lys Tyr Ala Lys Leu His Pro Glu Met Ser Asn Leu Asp Leu Thr Lys  
 130 135 140  
 Ile Leu Ser Lys Lys Tyr Lys Glu Leu Pro Glu Lys Lys Lys Met Lys  
 145 150 155 160  
 Tyr Ile Gln Asp Phe Gln Arg Glu Lys Gln Glu Phe Glu Arg Asn Leu  
 165 170 175  
 Ala Arg Phe Arg Glu Asp His Pro Asp Leu Ile Gln Asn Ala Lys Lys  
 180 185 190  
 Ser Asp Ile Pro Glu Lys Pro Lys Thr Pro Gln Gln Leu Trp Tyr Thr  
 195 200 205  
 His Glu Lys Lys Val Tyr Leu Lys Val Arg Pro Asp Ala Thr Thr Lys  
 210 215 220  
 Glu Val Lys Asp Ser Leu Gly Lys Gln Trp Ser Gln Leu Ser Asp Lys  
 225 230 235 240  
 Lys Arg Leu Lys Trp Ile His Lys Ala Leu Glu Gln Arg Lys Glu Tyr  
 245 250 255  
 Glu Glu Ile Met Arg Asp Tyr Ile Gln Lys His Pro Glu Leu Asn Ile  
 260 265 270  
 Ser Glu Glu Gly Ile Thr Lys Ser Thr Leu Thr Lys Ala Glu Arg Gln  
 275 280 285  
 Leu Lys Asp Lys Phe Asp Gly Arg Pro Thr Lys Pro Pro Pro Asn Ser  
 290 295 300  
 Tyr Ser Leu Tyr Cys Ala Glu Leu Met Ala Asn Met Lys Asp Val Pro  
 305 310 315 320  
 Ser Thr Glu Arg Met Val Leu Cys Ser Gln Gln Trp Lys Leu Leu Ser  
 325 330 335

Gln	Lys	Glu	Lys	Asp	Ala	Tyr	His	Lys	Lys	Cys	Asp	Gln	Lys	Lys	Lys
			340					345					350		
Asp	Tyr	Glu	Val	Glu	Leu	Leu	Arg	Phe	Leu	Glu	Ser	Leu	Pro	Glu	Glu
		355					360					365			
Glu	Gln	Gln	Arg	Val	Leu	Gly	Glu	Glu	Lys	Met	Leu	Asn	Ile	Asn	Lys
		370				375					380				
Lys	Gln	Ala	Thr	Ser	Pro	Ala	Ser	Lys	Lys	Pro	Ala	Gln	Glu	Gly	Gly
385					390					395					400
Lys	Gly	Gly	Ser	Glu	Lys	Pro	Lys	Arg	Pro	Val	Ser	Ala	Met	Phe	Ile
			405						410					415	
Phe	Ser	Glu	Glu	Lys	Arg	Arg	Gln	Leu	Gln	Glu	Glu	Arg	Pro	Glu	Leu
			420					425					430		
Ser	Glu	Ser	Glu	Leu	Thr	Arg	Leu	Leu	Ala	Arg	Met	Trp	Asn	Asp	Leu
		435					440					445			
Ser	Glu	Lys	Lys	Lys	Ala	Lys	Tyr	Lys	Ala	Arg	Glu	Ala	Ala	Leu	Lys
		450				455					460				
Ala	Gln	Ser	Glu	Arg	Lys	Pro	Gly	Gly	Glu	Arg	Glu	Glu	Arg	Gly	Lys
465					470					475					480
Leu	Pro	Glu	Ser	Pro	Lys	Arg	Ala	Glu	Glu	Ile	Trp	Gln	Gln	Ser	Val
			485						490					495	
Ile	Gly	Asp	Tyr	Leu	Ala	Arg	Phe	Lys	Asn	Asp	Arg	Val	Lys	Ala	Leu
			500					505					510		
Lys	Ala	Met	Glu	Met	Thr	Trp	Asn	Asn	Met	Glu	Lys	Lys	Glu	Lys	Leu
		515					520					525			
Met	Trp	Ile	Lys	Lys	Ala	Ala	Glu	Asp	Gln	Lys	Arg	Tyr	Glu	Arg	Glu
		530				535					540				
Leu	Ser	Glu	Met	Arg	Ala	Pro	Pro	Ala	Ala	Thr	Asn	Ser	Ser	Lys	Lys
545					550					555					560
Met	Lys	Phe	Gln	Gly	Glu	Pro	Lys	Lys	Pro	Pro	Met	Asn	Gly	Tyr	Gln
			565						570					575	
Lys	Phe	Ser	Gln	Glu	Leu	Leu	Ser	Asn	Gly	Glu	Leu	Asn	His	Leu	Pro
			580					585					590		
Leu	Lys	Glu	Arg	Met	Val	Glu	Ile	Gly	Ser	Arg	Trp	Gln	Arg	Ile	Ser
		595					600					605			
Gln	Ser	Gln	Lys	Glu	His	Tyr	Lys	Lys	Leu	Ala	Glu	Glu	Gln	Gln	Lys
		610				615					620				
Gln	Tyr	Lys	Val	His	Leu	Asp	Leu	Trp	Val	Lys	Ser	Leu	Ser	Pro	Gln
625					630					635					640
Asp	Arg	Ala	Ala	Tyr	Lys	Glu	Tyr	Ile	Ser	Asn	Lys	Arg	Lys	Ser	Met
			645						650					655	
Thr	Lys	Leu	Arg	Gly	Pro	Asn	Pro	Lys	Ser	Ser	Arg	Thr	Thr	Leu	Gln
			660					665					670		
Ser	Lys	Ser	Glu	Ser	Glu	Glu	Asp	Asp	Glu	Glu	Asp	Glu	Asp	Asp	Glu
		675					680					685			
Asp	Glu	Asp	Glu	Glu											

<210> 68  
 <211> 434  
 <212> DNA  
 <213> Homo sapien

<400> 68  
 ctaagatgct ggatgctgaa gacatcgctg gaactgccc gccagatgag aaagccatta 60  
 tgacttatgt gtctagcttc tatcatgcct tctctggagc ccagaaggca gaaacagcag 120  
 ccaatcgcat ctgcaaagtg ttggcgggca atcaagagaa cgagcagctt atggaagact 180  
 atgagaagct ggccagtgat ctggtggagt ggatccgccg caccatccca tggctggaga 240  
 atcgggtgcc tgagaacacc atgcatgcca tgcagcagaa gctggaggac ttccgagact 300  
 atagacgcct gcacaagccg cccaagggtg aggagaagt ccagctggag atcaacttta 360  
 acacgctgca gaccaaactg cggtcagca accggcctgc cttcatgccc tccgagggca 420  
 ggatggtctc ggat 434

<210> 69  
 <211> 244  
 <212> DNA  
 <213> Homo sapien

<400> 69  
 aggcagcatg ctcggtgaga gtcatcacca ctccctaatt tcaagtacgc agggacacaa 60  
 acactgcgga aggcgcgagg gtcctctgcc taggaaaacc agagaccttt gttcacttgt 120  
 ttatgtgctg accttccctc cactattgtc ctgtgacct gccaaatccc cctttgtgag 180  
 aaacacccaa gaatgatcaa taaaaaataa attaatattag gaaaaaaaaa aaaaaaaact 240  
 cgag 244

<210> 70  
 <211> 437  
 <212> DNA  
 <213> Homo sapien

<400> 70  
 ctgggacggg agcgtccagc gggactcgaa cccagatgt gaaggcgttt ctggaaagtc 60  
 cttggtccct ggatccagcg tgggccagcc cagagcccg gccgcacatc cttgcgtcct 120  
 ccaggcagtg ggaccccgcg agctgcacgt ccctgggcac ggacaagtgt gaggcactgt 180  
 tggggctgtg ccagggtcgg ggtgggctgc cccctttctc agaaccttcc agcctggtgc 240  
 cgtggccccc aggcggagt ctccctaagg ctgtgaggcc acccctgtcc tggcctccgt 300  
 tctgcagca gcagacctg cccgtgatga gcggggaggc ccttggttgg ctgggccagg 360  
 ctggttccct ggccatgggg gctgcacctc tgggggagcc agccaaggag gaccccatgc 420  
 tggcgcagga agccggg 437

<210> 71  
 <211> 271  
 <212> DNA  
 <213> Homo sapien

<400> 71  
 gcgcagagtt ctgtcgtcca ccatcgagtg aggaagagag cattggttcc cctgagatag 60  
 aagagatggc tctcttcagt gccagctctc catacattaa cccgatcatc ccctttactg 120  
 gaccaatcca aggagggtg caggaggagc ttcaggtgac cctccagggg actaccgaga 180  
 gttttgcaca aaagtttgtg gtgaactttt cagaacagct tcaatggaga tgacttggcc 240  
 ttccacttca accccggtta tgaggaagga g 271

<210> 72  
 <211> 290  
 <212> DNA  
 <213> Homo sapien

<400> 72  
 ccgagcccta cccggaggtc tccagaatcc ccaccgtcag gggatgcaac ggctccctgt 60  
 ctggtgccct ctctgtctgc gaggactcgg ccacgggctc gggcccgccc aaggcccta 120  
 cgggtggccga gggcccagc tcctgccttc ggcggaacgt gatcagcgag agggagcgca 180  
 ggaagcggat gtcgttgagc tgtgagcgtc tgcggggcct gctgccccag ttcgatggcc 240  
 ggcgggagga catggcctcg gtccctggaga tgtctgttgc aattcctgcg 290

<210> 73  
 <211> 144  
 <212> PRT  
 <213> Homo sapien

<400> 73  
 Lys Met Leu Asp Ala Glu Asp Ile Val Gly Thr Ala Arg Pro Asp Glu  
 1 5 10 15  
 Lys Ala Ile Met Thr Tyr Val Ser Ser Phe Tyr His Ala Phe Ser Gly  
 20 25 30  
 Ala Gln Lys Ala Glu Thr Ala Ala Asn Arg Ile Cys Lys Val Leu Ala  
 35 40 45  
 Val Asn Gln Glu Asn Glu Gln Leu Met Glu Asp Tyr Glu Lys Leu Ala  
 50 55 60  
 Ser Asp Leu Leu Glu Trp Ile Arg Arg Thr Ile Pro Trp Leu Glu Asn  
 65 70 75 80  
 Arg Val Pro Glu Asn Thr Met His Ala Met Gln Gln Lys Leu Glu Asp  
 85 90 95  
 Phe Arg Asp Tyr Arg Arg Leu His Lys Pro Pro Lys Val Gln Glu Lys  
 100 105 110  
 Cys Gln Leu Glu Ile Asn Phe Asn Thr Leu Gln Thr Lys Leu Arg Leu  
 115 120 125  
 Ser Asn Arg Pro Ala Phe Met Pro Ser Glu Gly Arg Met Val Ser Asp  
 130 135 140

<210> 74  
 <211> 64  
 <212> PRT  
 <213> Homo sapien

<400> 74  
 Gly Ser Met Leu Val Glu Ser His His His Ser Leu Ile Ser Ser Thr  
 1 5 10 15  
 Gln Gly His Lys His Cys Gly Arg Pro Gln Gly Pro Leu Pro Arg Lys  
 20 25 30  
 Thr Arg Asp Leu Cys Ser Leu Val Tyr Val Leu Thr Phe Pro Pro Leu  
 35 40 45  
 Leu Ser Cys Asp Pro Ala Lys Ser Pro Phe Val Arg Asn Thr Gln Glu  
 50 55 60

<210> 75



<211> 145  
 <212> PRT  
 <213> Homo sapien

<400> 75  
 Gly Thr Gly Ala Ser Ser Gly Thr Arg Thr Pro Asp Val Lys Ala Phe  
 1 5 10 15  
 Leu Glu Ser Pro Trp Ser Leu Asp Pro Ala Ser Ala Ser Pro Glu Pro  
 20 25 30  
 Val Pro His Ile Leu Ala Ser Ser Arg Gln Trp Asp Pro Ala Ser Cys  
 35 40 45  
 Thr Ser Leu Gly Thr Asp Lys Cys Glu Ala Leu Leu Gly Leu Cys Gln  
 50 55 60  
 Val Arg Gly Gly Leu Pro Phe Ser Glu Pro Ser Ser Leu Val Pro  
 65 70 75 80  
 Trp Pro Pro Gly Arg Ser Leu Pro Lys Ala Val Arg Pro Pro Leu Ser  
 85 90 95  
 Trp Pro Pro Phe Ser Gln Gln Gln Thr Leu Pro Val Met Ser Gly Glu  
 100 105 110  
 Ala Leu Gly Trp Leu Gly Gln Ala Gly Ser Leu Ala Met Gly Ala Ala  
 115 120 125  
 Pro Leu Gly Glu Pro Ala Lys Glu Asp Pro Met Leu Ala Gln Glu Ala  
 130 135 140  
 Gly  
 145

<210> 76  
 <211> 69  
 <212> PRT  
 <213> Homo sapien

<400> 76  
 Ala Glu Phe Cys Arg Pro Pro Ser Ser Glu Glu Glu Ser Ile Gly Ser  
 1 5 10 15  
 Pro Glu Ile Glu Glu Met Ala Leu Phe Ser Ala Gln Ser Pro Tyr Ile  
 20 25 30  
 Asn Pro Ile Ile Pro Phe Thr Gly Pro Ile Gln Gly Gly Leu Gln Glu  
 35 40 45  
 Gly Leu Gln Val Thr Leu Gln Gly Thr Thr Glu Ser Phe Ala Gln Lys  
 50 55 60  
 Phe Val Val Asn Phe  
 65

<210> 77  
 <211> 96  
 <212> PRT  
 <213> Homo sapien

<400> 77  
 Glu Pro Tyr Pro Glu Val Ser Arg Ile Pro Thr Val Arg Gly Cys Asn  
 1 5 10 15  
 Gly Ser Leu Ser Gly Ala Leu Ser Cys Cys Glu Asp Ser Ala Gln Gly  
 20 25 30  
 Ser Gly Pro Pro Lys Ala Pro Thr Val Ala Glu Gly Pro Ser Ser Cys

35	40	45
Leu Arg Arg Asn Val Ile Ser Glu Arg Glu Arg Arg Lys Arg Met Ser		
50	55	60
Leu Ser Cys Glu Arg Leu Arg Ala Leu Leu Pro Gln Phe Asp Gly Arg		
65	70	75
Arg Glu Asp Met Ala Ser Val Leu Glu Met Ser Val Ala Ile Pro Ala		
85	90	95

<210> 78  
 <211> 2076  
 <212> DNA  
 <213> Homo sapien

<400> 78

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gaaaagttat	taaatgcaaa	gcagctgtgc	tttgggagca	gaagcaaccc	ttctccattg	120
aggaaataga	agttgcccc	ccaaagacta	aagaagttcg	cattaagatt	ttggccacag	180
gaatctgtcg	cacagatgac	catgtgataa	aaggaacaat	ggtgtccaag	tttccagtga	240
ttgtgggaca	tgaggcaact	gggattgtag	agagcattgg	agaaggagtg	actacagtga	300
aaccagggtg	caaagtcac	cctctctttc	tgccacaatg	tagagaatgc	aatgcttgtc	360
gcaaccacga	tggcaacctt	tgcattagga	gcgatattac	tggtcgtgga	gtactggctg	420
atggcaccac	cagattttaca	tgcaagggca	aaccagtcca	ccacttcacg	aacaccagta	480
cattttaccga	gtacacagtg	gtggatgaat	cttctgttgc	taagattgat	gatgcagctc	540
ctcctgagaa	agtctgttta	attggctgtg	ggttttccac	tggatatggc	gctgctgtta	600
aaactggcaa	ggtc aaacct	ggttccactt	gcgtcgtcct	tggcctgaga	ggagtgggcc	660
tgtcagtcac	catgggctgt	aagtcagctg	gtgcatctag	gatcattggg	attgacctca	720
acaaagacaa	atgttgagaag	gccatggctg	taggtgccac	tgagtgtatc	agtcccaagg	780
actctaccaa	acccatcagc	gaggtgctgt	cagaaatgac	aggcaacaac	gtgggataca	840
cctttgaagt	tattgggcat	cttgaaacca	tgattgatgc	cctggcatcc	tgccacatga	900
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<210> 79  
 <211> 2790  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 79

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aatgaaaaaa	aaaaaaaaaa	aaaactcgag				2790

&lt;210&gt; 80

&lt;211&gt; 1460

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<400> 80

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gtcgcagggg	tagtgatcct	ggcagtcacc	atagctctac	ttgtttactt	tttagctttt	180
gatcaaaaat	cttactttta	taggagcagt	tttcaactcc	taaatgttga	atataatagt	240
cagttaaatt	caccagctac	acaggaatac	aggactttga	gtggaagaat	tgaatctctg	300
attactaaaa	cattcaaaga	atcaaattta	agaaatcagt	tcatcagagc	tcatgttgcc	360
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gagcagagaa	tccttggagg	cactgaggct	gaggagggaa	gctggccgtg	gcaagtcagt	660
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acaaaaaaaaa	aaaaaaaaaa					1460

<210> 81

<211> 386

<212> PRT

<213> Homo sapien

<400> 81

Met	Phe	Ala	Glu	Ile	Gln	Ile	Gln	Asp	Lys	Asp	Arg	Met	Gly	Thr	Ala
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Gly	Lys	Val	Ile	Lys	Cys	Lys	Ala	Ala	Val	Leu	Trp	Glu	Gln	Lys	Gln
			20					25					30		
Pro	Phe	Ser	Ile	Glu	Glu	Ile	Glu	Val	Ala	Pro	Pro	Lys	Thr	Lys	Glu
		35					40					45			
Val	Arg	Ile	Lys	Ile	Leu	Ala	Thr	Gly	Ile	Cys	Arg	Thr	Asp	Asp	His
	50					55				60					
Val	Ile	Lys	Gly	Thr	Met	Val	Ser	Lys	Phe	Pro	Val	Ile	Val	Gly	His
65					70				75					80	
Glu	Ala	Thr	Gly	Ile	Val	Glu	Ser	Ile	Gly	Glu	Gly	Val	Thr	Thr	Val
			85					90					95		
Lys	Pro	Gly	Asp	Lys	Val	Ile	Pro	Leu	Phe	Leu	Pro	Gln	Cys	Arg	Glu
		100						105					110		
Cys	Asn	Ala	Cys	Arg	Asn	Pro	Asp	Gly	Asn	Leu	Cys	Ile	Arg	Ser	Asp
	115					120						125			
Ile	Thr	Gly	Arg	Gly	Val	Leu	Ala	Asp	Gly	Thr	Thr	Arg	Phe	Thr	Cys
	130					135					140				
Lys	Gly	Lys	Pro	Val	His	His	Phe	Met	Asn	Thr	Ser	Thr	Phe	Thr	Glu
145					150				155						160

Tyr Thr Val Val Asp Glu Ser Ser Val Ala Lys Ile Asp Asp Ala Ala  
                   165                  170                  175  
 Pro Pro Glu Lys Val Cys Leu Ile Gly Cys Gly Phe Ser Thr Gly Tyr  
                   180                  185                  190  
 Gly Ala Ala Val Lys Thr Gly Lys Val Lys Pro Gly Ser Thr Cys Val  
                   195                  200                  205  
 Val Phe Gly Leu Arg Gly Val Gly Leu Ser Val Ile Met Gly Cys Lys  
                   210                  215                  220  
 Ser Ala Gly Ala Ser Arg Ile Ile Gly Ile Asp Leu Asn Lys Asp Lys  
 225                  230                  235                  240  
 Phe Glu Lys Ala Met Ala Val Gly Ala Thr Glu Cys Ile Ser Pro Lys  
                   245                  250                  255  
 Asp Ser Thr Lys Pro Ile Ser Glu Val Leu Ser Glu Met Thr Gly Asn  
                   260                  265                  270  
 Asn Val Gly Tyr Thr Phe Glu Val Ile Gly His Leu Glu Thr Met Ile  
                   275                  280                  285  
 Asp Ala Leu Ala Ser Cys His Met Asn Tyr Gly Thr Ser Val Val Val  
 290                  295                  300  
 Gly Val Pro Pro Ser Ala Lys Met Leu Thr Tyr Asp Pro Met Leu Leu  
 305                  310                  315                  320  
 Phe Thr Gly Arg Thr Trp Lys Gly Cys Val Phe Gly Gly Leu Lys Ser  
                   325                  330                  335  
 Arg Asp Asp Val Pro Lys Leu Val Thr Glu Phe Leu Ala Lys Lys Phe  
                   340                  345                  350  
 Asp Leu Asp Gln Leu Ile Thr His Val Leu Pro Phe Lys Lys Ile Ser  
                   355                  360                  365  
 Glu Gly Phe Glu Leu Leu Asn Ser Gly Gln Ser Ile Arg Thr Val Leu  
 370                  375                  380  
 Thr Phe  
 385

&lt;210&gt; 82

&lt;211&gt; 418

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 82

Met Tyr Arg Pro Ala Arg Val Thr Ser Thr Ser Arg Phe Leu Asn Pro  
 1                  5                  10                  15  
 Tyr Val Val Cys Phe Ile Val Val Ala Gly Val Val Ile Leu Ala Val  
                   20                  25                  30  
 Thr Ile Ala Leu Leu Val Tyr Phe Leu Ala Phe Asp Gln Lys Ser Tyr  
                   35                  40                  45  
 Phe Tyr Arg Ser Ser Phe Gln Leu Leu Asn Val Glu Tyr Asn Ser Gln  
 50                  55                  60  
 Leu Asn Ser Pro Ala Thr Gln Glu Tyr Arg Thr Leu Ser Gly Arg Ile  
 65                  70                  75                  80  
 Glu Ser Leu Ile Thr Lys Thr Phe Lys Glu Ser Asn Leu Arg Asn Gln  
                   85                  90                  95  
 Phe Ile Arg Ala His Val Ala Lys Leu Arg Gln Asp Gly Ser Gly Val  
                   100                  105                  110  
 Arg Ala Asp Val Val Met Lys Phe Gln Phe Thr Arg Asn Asn Asn Gly  
                   115                  120                  125  
 Ala Ser Met Lys Ser Arg Ile Glu Ser Val Leu Arg Gln Met Leu Asn

130 135 140  
 Asn Ser Gly Asn Leu Glu Ile Asn Pro Ser Thr Glu Ile Thr Ser Leu  
 145 150 155 160  
 Thr Asp Gln Ala Ala Ala Asn Trp Leu Ile Asn Glu Cys Gly Ala Gly  
 165 170 175  
 Pro Asp Leu Ile Thr Leu Ser Glu Gln Arg Ile Leu Gly Gly Thr Glu  
 180 185 190  
 Ala Glu Glu Gly Ser Trp Pro Trp Gln Val Ser Leu Arg Leu Asn Asn  
 195 200 205  
 Ala His His Cys Gly Gly Ser Leu Ile Asn Asn Met Trp Ile Leu Thr  
 210 215 220  
 Ala Ala His Cys Phe Arg Ser Asn Ser Asn Pro Arg Asp Trp Ile Ala  
 225 230 235 240  
 Thr Ser Gly Ile Ser Thr Thr Phe Pro Lys Leu Arg Met Arg Val Arg  
 245 250 255  
 Asn Ile Leu Ile His Asn Asn Tyr Lys Ser Ala Thr His Glu Asn Asp  
 260 265 270  
 Ile Ala Leu Val Arg Leu Glu Asn Ser Val Thr Phe Thr Lys Asp Ile  
 275 280 285  
 His Ser Val Cys Leu Pro Ala Ala Thr Gln Asn Ile Pro Pro Gly Ser  
 290 295 300  
 Thr Ala Tyr Val Thr Gly Trp Gly Ala Gln Glu Tyr Ala Gly His Thr  
 305 310 315 320  
 Val Pro Glu Leu Arg Gln Gly Gln Val Arg Ile Ile Ser Asn Asp Val  
 325 330 335  
 Cys Asn Ala Pro His Ser Tyr Asn Gly Ala Ile Leu Ser Gly Met Leu  
 340 345 350  
 Cys Ala Gly Val Pro Gln Gly Gly Val Asp Ala Cys Gln Gly Asp Ser  
 355 360 365  
 Gly Gly Pro Leu Val Gln Glu Asp Ser Arg Arg Leu Trp Phe Ile Val  
 370 375 380  
 Gly Ile Val Ser Trp Gly Asp Gln Cys Gly Leu Pro Asp Lys Pro Gly  
 385 390 395 400  
 Val Tyr Thr Arg Val Thr Ala Tyr Leu Asp Trp Ile Arg Gln Gln Thr  
 405 410 415  
 Gly Ile

<210> 83

<211> 418

<212> PRT

<213> Homo sapien

<400> 83

Met Tyr Arg Pro Ala Arg Val Thr Ser Thr Ser Arg Phe Leu Asn Pro  
 1 5 10 15  
 Tyr Val Val Cys Phe Ile Val Val Ala Gly Val Val Ile Leu Ala Val  
 20 25 30  
 Thr Ile Ala Leu Leu Val Tyr Phe Leu Ala Phe Asp Gln Lys Ser Tyr  
 35 40 45  
 Phe Tyr Arg Ser Ser Phe Gln Leu Leu Asn Val Glu Tyr Asn Ser Gln  
 50 55 60  
 Leu Asn Ser Pro Ala Thr Gln Glu Tyr Arg Thr Leu Ser Gly Arg Ile  
 65 70 75 80

Glu Ser Leu Ile Thr Lys Thr Phe Lys Glu Ser Asn Leu Arg Asn Gln  
                   85                  90                  95  
 Phe Ile Arg Ala His Val Ala Lys Leu Arg Gln Asp Gly Ser Gly Val  
                   100                  105                  110  
 Arg Ala Asp Val Val Met Lys Phe Gln Phe Thr Arg Asn Asn Asn Gly  
                   115                  120                  125  
 Ala Ser Met Lys Ser Arg Ile Glu Ser Val Leu Arg Gln Met Leu Asn  
                   130                  135                  140  
 Asn Ser Gly Asn Leu Glu Ile Asn Pro Ser Thr Glu Ile Thr Ser Leu  
 145                  150                  155                  160  
 Thr Asp Gln Ala Ala Asn Trp Leu Ile Asn Glu Cys Gly Ala Gly  
                   165                  170                  175  
 Pro Asp Leu Ile Thr Leu Ser Glu Gln Arg Ile Leu Gly Gly Thr Glu  
                   180                  185                  190  
 Ala Glu Glu Gly Ser Trp Pro Trp Gln Val Ser Leu Arg Leu Asn Asn  
                   195                  200                  205  
 Ala His His Cys Gly Gly Ser Leu Ile Asn Asn Met Trp Ile Leu Thr  
                   210                  215                  220  
 Ala Ala His Cys Phe Arg Ser Asn Ser Asn Pro Arg Asp Trp Ile Ala  
 225                  230                  235                  240  
 Thr Ser Gly Ile Ser Thr Thr Phe Pro Lys Leu Arg Met Arg Val Arg  
                   245                  250                  255  
 Asn Ile Leu Ile His Asn Asn Tyr Lys Ser Ala Thr His Glu Asn Asp  
                   260                  265                  270  
 Ile Ala Leu Val Arg Leu Glu Asn Ser Val Thr Phe Thr Lys Asp Ile  
                   275                  280                  285  
 His Ser Val Cys Leu Pro Ala Ala Thr Gln Asn Ile Pro Pro Gly Ser  
                   290                  295                  300  
 Thr Ala Tyr Val Thr Gly Trp Gly Ala Gln Glu Tyr Ala Gly His Thr  
 305                  310                  315                  320  
 Val Pro Glu Leu Arg Gln Gly Gln Val Arg Ile Ile Ser Asn Asp Val  
                   325                  330                  335  
 Cys Asn Ala Pro His Ser Tyr Asn Gly Ala Ile Leu Ser Gly Met Leu  
                   340                  345                  350  
 Cys Ala Gly Val Pro Gln Gly Gly Val Asp Ala Cys Gln Gly Asp Ser  
                   355                  360                  365  
 Gly Gly Pro Leu Val Gln Glu Asp Ser Arg Arg Leu Trp Phe Ile Val  
                   370                  375                  380  
 Gly Ile Val Ser Trp Gly Asp Gln Cys Gly Leu Pro Asp Lys Pro Gly  
 385                  390                  395                  400  
 Val Tyr Thr Arg Val Thr Ala Tyr Leu Asp Trp Ile Arg Gln Gln Thr  
                   405                  410                  415  
 Gly Ile

&lt;210&gt; 84

&lt;211&gt; 489

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 84

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aattacagag gagtttcatg gcactaagtc aagatattca gaaaacaata aagaagacag	180

cacgtcggga	gcagcttatg	agagaagaag	ctgaacagaa	acgtttaaaa	actgtacttg	240
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gtttgaatgg	agtccaata	ttgtccgaag	aggagtgtgc	attgttggat	gaattctata	360
agctagtaga	ccctgaacgg	gacatgagct	tgaggttgaa	tgaacagtat	gaacatgcct	420
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aagttctaa						489

<210> 85  
 <211> 304  
 <212> DNA  
 <213> Homo sapien

<400> 85						
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agag						304

<210> 86  
 <211> 296  
 <212> DNA  
 <213> Homo sapien

<400> 86						
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<210> 87  
 <211> 904  
 <212> DNA  
 <213> Homo sapien

<400> 87						
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cttcaactac	tattacaaat	attccaatga	aggaagaaca	gcatgctaac	acatctgcca	300
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gttctgtttt	attggaacaa	ccacgaaagt	caggtttctaa	agtcattagt	catatgctta	600
gtagccatgg	aggagagatt	tttttgcaag	tccttagcag	ttctcgatcc	attctagaag	660
atccaccttc	aattagtga	ggatgtggag	gaagagttac	agactaccgg	attacagatt	720
ttggtgaatt	tatgagggga	aaacagatta	actccttttc	tacaccccag	atataaaatc	780
gatggaagtc	ttgaggtccc	tttggaaccg	agccaaaaga	tcagttaaaa	aaacataccc	840
gttactggcc	tatgatttca	aaaaccacc	atttttaaca	tgcaagcggg	agttccgtta	900
acca						904



<210> 88  
 <211> 387  
 <212> DNA  
 <213> Homo sapien

<400> 88  
 cgtctctccc ccagtttgcc gttcaccocgg agcgcctcggg acttgccgat agtggtgacg 60  
 gcgggcaacat gtctgtggct ttcgcggccc cgaggcagcg aggcaagggg gagatcactc 120  
 ccgctgcgat tcagaagatg ttggatgaca ataaccatct tattcagtgt ataatggact 180  
 ctcagaataa aggaaagacc tcagagtgtt ctcagtatca gcagatgttg cacacaaact 240  
 tgggtatacct tgctacaata gcagattcta atcaaaatat gcagtctctt ttaccagcac 300  
 caccacacac gaatatgcct atgggtcctg gagggatgaa tcagagcggg cctccccac 360  
 ctccacgctc tcacaacatg ccttcaa 387

<210> 89  
 <211> 481  
 <212> DNA  
 <213> Homo sapien

<400> 89  
 tgttctttgga cctgcgggtgc tatagagcag gctcttctag gttggcagtt gccatggaat 60  
 ctggacccaa aatgtttggcc cccgtttgcc tgggtgaaaa taacaatgag cagctatttg 120  
 tgaaccagca agctatacag attcttgaaa agatttctca gccagtgggtg gtggtggcca 180  
 ttgtaggact gtaccgtaca gggaaatcct acttgatgaa ccatctggca ggacagaatc 240  
 atggcttccc tctgggctcc acggtgcagt ctgaaaccaa gggcatctgg atgtggtgcg 300  
 tgccccaccc atccaagcca aaccacaccc tggctcttct ggacaccgaa ggtctgggcg 360  
 atgtggaaaa ggggtgacct aagaatgact cctggatctt tgccctggct gtgctcctgt 420  
 gcagcacctt tgtctacaac agcatgagca ccatcaacca ccaggccctg gagcagctgc 480  
 a 481

<210> 90  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<400> 90  
 tgaaaaactgt tcttggacct gcgggtgctat agagcagggtt ggcagttgcc atggaatctg 60  
 gacccaaaat gttggccccc gtttgccctg tggaaaataa caatgagcag ctattggtga 120  
 accagcaagc tatacagatt cttgaaaaga tttctcagcc agtggtggtg gtggccattg 180  
 taggactgta ccgtacaggg aaatcctact tgatgaacca tctggcagga cagaatcatg 240  
 gcttccctct gggctccacg gtgcagctctg aaaccaaggg catctggatg tgggtgcgtgc 300  
 cccacccatc caagccaaac cacacccctg tccttctgga caccgaaggt ctgggcgatg 360  
 tggaaaaggg tgaccctaag aatgactcct ggatctttgc cctggctgtg ctctgtgca 420  
 gcacctttgt ctacaacagc atgagcacca tcaaccacca agccctggag cagctgcatt 480  
 atgtgacgga c 491

<210> 91  
 <211> 488  
 <212> DNA  
 <213> Homo sapien

<400> 91  
 ttgcagagtc agccgcatct tcttttgcgt cgccagccga gccacatcgc tcagacacca 60

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tggggaaggt gaaggtcgga gtcaacggat ttggtcgtat tgggcgcctg gtcaccaggg 120
ctgcttttaa ctctggtaaa gtggatattg ttgccatcaa tgacccttc attgacctca 180
actacatggg ttacatgttc caatatgatt ccacccatgg caaattccat ggcaccgtcg 240
aggctgagaa cgggaagctt gtcacatgaa gaaatcccat caccatcttc caggagcgag 300
atccctccaa aatcaagtgg ggcgatgctg gcgctgagta cgtcgtggag tccactggcg 360
tcttcaccac catggagaag gctggggctc atttgcaggg gggagccaaa agggatcatca 420
tctctgcccc tctgctgatg ccccatgttc gtcatgggtg tgaacatga gaagtatgac 480
acagcctc

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<210> 92  
 <211> 384  
 <212> DNA  
 <213> Homo sapien

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<400> 92
gacagtcagc cgcactcttc tttgcgtcgc cagccgagcc acatcgctca gacaccatgg 60
ggaaggtgaa ggtcggagtc aacggatttg gtcgtattgg gcgcctggtc accagggctg 120
cttttaactc tggtaaagtg gatattgttg ccatcaatga ccccttcatt gacctcaact 180
acatgggtta catgttccaa tatgattcca cccatggcaa attccatggc accgtcgagg 240
ctgagaacgg gaagcttgct atcaatggaa atcccatcac catcttccag gagcgagatc 300
cctccaaaat caagtggggc gatactggcg ctgagtacgt cgtggagtcc actggcgtct 360
tcaccaccat ggagaaggct gggg

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<210> 93  
 <211> 162  
 <212> PRT  
 <213> Homo sapien

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<400> 93
Lys Gly Lys Leu Asp Asp Tyr Gln Glu Arg Met Asn Lys Gly Glu Arg
1      5      10      15
Leu Asn Gln Asp Gln Leu Asp Ala Val Ser Lys Tyr Gln Glu Val Thr
20      25      30
Asn Asn Leu Glu Phe Ala Lys Glu Leu Gln Arg Ser Phe Met Ala Leu
35      40      45
Ser Gln Asp Ile Gln Lys Thr Ile Lys Lys Thr Ala Arg Arg Glu Gln
50      55      60
Leu Met Arg Glu Glu Ala Glu Gln Lys Arg Leu Lys Thr Val Leu Glu
65      70      75      80
Leu Gln Tyr Val Leu Asp Lys Leu Gly Asp Asp Glu Val Arg Thr Asp
85      90      95
Leu Lys Gln Gly Leu Asn Gly Val Pro Ile Leu Ser Glu Glu Leu
100      105      110
Ser Leu Leu Asp Glu Phe Tyr Lys Leu Val Asp Pro Glu Arg Asp Met
115      120      125
Ser Leu Arg Leu Asn Glu Gln Tyr Glu His Ala Ser Ile His Leu Trp
130      135      140
Asp Leu Leu Glu Gly Lys Glu Lys Pro Val Cys Gly Thr Thr Tyr Lys
145      150      155      160
Val Leu

```

<210> 94  
 <211> 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 94

Asp	Leu	Glu	Glu	Ala	Thr	Leu	Gln	His	Glu	Ala	Thr	Ala	Ala	Thr	Leu
1				5					10					15	
Arg	Lys	Lys	His	Ala	Asp	Ser	Val	Ala	Glu	Leu	Gly	Glu	Gln	Ile	Asp
			20					25					30		
Asn	Leu	Gln	Arg	Val	Lys	Gln	Lys	Leu	Glu	Lys	Glu	Lys	Ser	Glu	Met
		35				40					45				
Lys	Met	Glu	Ile	Asp	Asp	Leu	Ala	Cys	Asn	Met	Glu	Val	Ile	Ser	Lys
	50					55				60					
Ser	Lys	Gly	Asn	Leu	Glu	Lys	Met	Cys	Arg	Thr	Leu	Glu	Asp	Gln	Val
65				70					75					80	
Ser	Glu	Leu	Lys	Thr	Gln	Glu	Glu	Glu	Gln	Arg	Leu	Ile	Asn	Glu	
				85				90					95		
Leu	Thr	Ala	Gln												
			100												

&lt;210&gt; 95

&lt;211&gt; 99

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 95

Lys	Ile	Leu	Pro	Leu	Asn	Gly	Asn	Leu	Gln	Ala	Val	Glu	Leu	Gly	Glu
1				5					10					15	
Lys	Arg	Thr	Ser	Ser	Leu	Arg	Ile	Lys	Met	Phe	Arg	Ala	Thr	Arg	Val
			20					25					30		
Thr	Ser	Thr	Ser	Arg	Phe	Leu	Asn	Pro	Tyr	Val	Val	Cys	Phe	Leu	Val
		35				40					45				
Leu	Pro	Gly	Val	Val	Ile	Leu	Ala	Val	Pro	Ile	Ala	Leu	Leu	Val	Tyr
	50					55				60					
Phe	Leu	Ala	Phe	Asp	Gln	Lys	Ser	Tyr	Phe	Tyr	Trp	Ser	Asn	Phe	Pro
65				70					75					80	
Leu	Pro	Asn	Val	Glu	Tyr	Asn	Ser	Pro	Phe	Asn	Ser	Pro	Ala	Ser	Pro
				85				90					95		
Gly	Ile	Pro													

&lt;210&gt; 96

&lt;211&gt; 257

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 96

Val	Gln	Glu	Thr	Ile	His	Glu	His	Asn	Lys	Leu	Ala	Ala	Asn	Ser	Asp
1				5					10					15	
His	Leu	Met	Gln	Ile	Gln	Lys	Cys	Glu	Leu	Val	Leu	Ile	His	Thr	Tyr
			20					25					30		
Pro	Val	Gly	Glu	Asp	Ser	Leu	Val	Ser	Asp	Arg	Ser	Lys	Lys	Glu	Leu
		35				40					45				
Ser	Pro	Val	Leu	Thr	Ser	Glu	Val	His	Ser	Val	Arg	Ala	Gly	Arg	His
	50					55				60					

Leu Ala Thr Lys Leu Asn Ile Leu Val Gln Gln His Phe Asp Leu Ala  
 65 70 75 80  
 Ser Thr Thr Ile Thr Asn Ile Pro Met Lys Glu Glu Gln His Ala Asn  
 85 90 95  
 Thr Ser Ala Asn Tyr Asp Val Glu Leu Leu His His Lys Asp Ala His  
 100 105 110  
 Val Asp Phe Leu Lys Ser Gly Asp Ser His Leu Gly Gly Gly Ser Arg  
 115 120 125  
 Glu Gly Ser Phe Lys Glu Thr Ile Thr Leu Lys Trp Cys Thr Pro Arg  
 130 135 140  
 Thr Asn Asn Ile Glu Leu His Tyr Cys Thr Gly Ala Tyr Arg Ile Ser  
 145 150 155 160  
 Pro Val Asp Val Asn Ser Arg Pro Ser Ser Cys Leu Thr Asn Phe Leu  
 165 170 175  
 Leu Asn Gly Arg Ser Val Leu Leu Glu Gln Pro Arg Lys Ser Gly Ser  
 180 185 190  
 Lys Val Ile Ser His Met Leu Ser Ser His Gly Gly Glu Ile Phe Leu  
 195 200 205  
 His Val Leu Ser Ser Ser Arg Ser Ile Leu Glu Asp Pro Pro Ser Ile  
 210 215 220  
 Ser Glu Gly Cys Gly Gly Arg Val Thr Asp Tyr Arg Ile Thr Asp Phe  
 225 230 235 240  
 Gly Glu Phe Met Arg Gly Lys Gln Ile Asn Ser Phe Ser Thr Pro Gln  
 245 250 255  
 Ile

<210> 97  
 <211> 128  
 <212> PRT  
 <213> Homo sapien

<400> 97  
 Ser Leu Pro Gln Phe Ala Val His Pro Glu Arg Ser Gly Leu Ala Asp  
 1 5 10 15  
 Ser Gly Asp Gly Gly Asn Met Ser Val Ala Phe Ala Ala Pro Arg Gln  
 20 25 30  
 Arg Gly Lys Gly Glu Ile Thr Pro Ala Ala Ile Gln Lys Met Leu Asp  
 35 40 45  
 Asp Asn Asn His Leu Ile Gln Cys Ile Met Asp Ser Gln Asn Lys Gly  
 50 55 60  
 Lys Thr Ser Glu Cys Ser Gln Tyr Gln Gln Met Leu His Thr Asn Leu  
 65 70 75 80  
 Val Tyr Leu Ala Thr Ile Ala Asp Ser Asn Gln Asn Met Gln Ser Leu  
 85 90 95  
 Leu Pro Ala Pro Pro Thr Gln Asn Met Pro Met Gly Pro Gly Gly Met  
 100 105 110  
 Asn Gln Ser Gly Pro Pro Pro Pro Pro Arg Ser His Asn Met Pro Ser  
 115 120 125

<210> 98  
 <211> 159  
 <212> PRT  
 <213> Homo sapien

<400> 98  
 Phe Leu Asp Leu Arg Cys Tyr Arg Ala Gly Ser Ser Arg Leu Ala Val  
 1 5 10 15  
 Ala Met Glu Ser Gly Pro Lys Met Leu Ala Pro Val Cys Leu Val Glu  
 20 25 30  
 Asn Asn Asn Glu Gln Leu Leu Val Asn Gln Gln Ala Ile Gln Ile Leu  
 35 40 45  
 Glu Lys Ile Ser Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr  
 50 55 60  
 Arg Thr Gly Lys Ser Tyr Leu Met Asn His Leu Ala Gly Gln Asn His  
 65 70 75 80  
 Gly Phe Pro Leu Gly Ser Thr Val Gln Ser Glu Thr Lys Gly Ile Trp  
 85 90 95  
 Met Trp Cys Val Pro His Pro Ser Lys Pro Asn His Thr Leu Val Leu  
 100 105 110  
 Leu Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Pro Lys Asn  
 115 120 125  
 Asp Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Cys Ser Thr Phe Val  
 130 135 140  
 Tyr Asn Ser Met Ser Thr Ile Asn His Gln Ala Leu Glu Gln Leu  
 145 150 155

<210> 99  
 <211> 147  
 <212> PRT  
 <213> Homo sapien

<400> 99  
 Met Glu Ser Gly Pro Lys Met Leu Ala Pro Val Cys Leu Val Glu Asn  
 1 5 10 15  
 Asn Asn Glu Gln Leu Leu Val Asn Gln Ala Ile Gln Ile Leu Glu  
 20 25 30  
 Lys Ile Ser Gln Pro Val Val Val Val Ala Ile Val Gly Leu Tyr Arg  
 35 40 45  
 Thr Gly Lys Ser Tyr Leu Met Asn His Leu Ala Gly Gln Asn His Gly  
 50 55 60  
 Phe Pro Leu Gly Ser Thr Val Gln Ser Glu Thr Lys Gly Ile Trp Met  
 65 70 75 80  
 Trp Cys Val Pro His Pro Ser Lys Pro Asn His Thr Leu Val Leu Leu  
 85 90 95  
 Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Pro Lys Asn Asp  
 100 105 110  
 Ser Trp Ile Phe Ala Leu Ala Val Leu Leu Cys Ser Thr Phe Val Tyr  
 115 120 125  
 Asn Ser Met Ser Thr Ile Asn His Gln Ala Leu Glu Gln Leu His Tyr  
 130 135 140  
 Val Thr Asp  
 145

<210> 100  
 <211> 124  
 <212> PRT  
 <213> Homo sapien

<400> 100  
 Met Gly Lys Val Lys Val Gly Val Asn Gly Phe Gly Arg Ile Gly Arg  
 1 5 10 15  
 Leu Val Thr Arg Ala Ala Phe Asn Ser Gly Lys Val Asp Ile Val Ala  
 20 25 30  
 Ile Asn Asp Pro Phe Ile Asp Leu Asn Tyr Met Val Tyr Met Phe Gln  
 35 40 45  
 Tyr Asp Ser Thr His Gly Lys Phe His Gly Thr Val Glu Ala Glu Asn  
 50 55 60  
 Gly Lys Leu Val Ile Asn Gly Asn Pro Ile Thr Ile Phe Gln Glu Arg  
 65 70 75 80  
 Asp Pro Ser Lys Ile Lys Trp Gly Asp Ala Gly Ala Glu Tyr Val Val  
 85 90 95  
 Glu Ser Thr Gly Val Phe Thr Thr Met Glu Lys Ala Gly Ala His Leu  
 100 105 110  
 Gln Gly Gly Ala Lys Arg Val Ile Ile Ser Ala Pro  
 115 120

<210> 101  
 <211> 127  
 <212> PRT  
 <213> Homo sapien

<400> 101  
 Gln Ser Ala Ala Ser Ser Phe Ala Ser Pro Ala Glu Pro His Arg Ser  
 1 5 10 15  
 Asp Thr Met Gly Lys Val Lys Val Gly Val Asn Gly Phe Gly Arg Ile  
 20 25 30  
 Gly Arg Leu Val Thr Arg Ala Ala Phe Asn Ser Gly Lys Val Asp Ile  
 35 40 45  
 Val Ala Ile Asn Asp Pro Phe Ile Asp Leu Asn Tyr Met Val Tyr Met  
 50 55 60  
 Phe Gln Tyr Asp Ser Thr His Gly Lys Phe His Gly Thr Val Glu Ala  
 65 70 75 80  
 Glu Asn Gly Lys Leu Val Ile Asn Gly Asn Pro Ile Thr Ile Phe Gln  
 85 90 95  
 Glu Arg Asp Pro Ser Lys Ile Lys Trp Gly Asp Thr Gly Ala Glu Tyr  
 100 105 110  
 Val Val Glu Ser Thr Gly Val Phe Thr Thr Met Glu Lys Ala Gly  
 115 120 125

<210> 102  
 <211> 1225  
 <212> DNA  
 <213> Homo sapien

<400> 102  
 atggcggcgc ggtcgtcgtc gggggtggcg gcggcagagg gggcgggcggc cctggcgcca 60  
 gcggagacgg cagccgtgac ggtggcagcg gcggcgcggg acctgggcct gggggaatga 120  
 ggcgggccgcg gcggggccagc ggcgagccg tgtagcggag aagctcccc tccctgcttc 180  
 ccttgccga gccgggggcg cgcgcgcacg cggcgtcca gagcgggctc cccaccctc 240  
 gactcctgcg acccgaccg cacccccacc cgggcccga ggatgatgaa gctcaagtcg 300  
 aaccagaccc gcacctacga cggcgacggc tacaagaagc gggccgcatg cctgtgtttc 360

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<210> 103
<211> 741
<212> DNA
<213> Homo sapien
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```
<210> 104
<211> 321
<212> DNA
<213> Homo sapien
```

```
<210> 105
<211> 389
<212> DNA
<213> Homo sapien
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<400> 105  
 cagcactggc cacactataa aattcaggtt cagaaaaaca gggtaagtca cagacagcaa 60  
 cgcttccagc atttattttc tttgcaccca tgggcaattt gagaaaattt acctttagaa 120  
 cgaactctgt taaaggtaga gacagtacaa tactttttat tcagaagggt tctgcataaa 180  
 ggtgatagtc ttttgactta atatattatt gtctcctgcc ttgtgtttct ggaatgaatg 240  
 aaggtcatta tttagaagat aatctgggtt gtatttgtgt cgtcagattg aattttcatt 300  
 gcacatgcta cttaatgtct ttaccaaata ataacaaagg gaaagaaaac caaatataga 360  
 tgtataataa ggaaaagctg gcctataga 389

<210> 106  
 <211> 446  
 <212> DNA  
 <213> Homo sapien

<400> 106  
 gccacatttg ccctgggtcat agtttaaaca ccaggctcctg tgtcacatct ttttgggtgcc 60  
 acaagtatca ctccattgtt cagagagtaa tgtattagtt ctgcccattt cattcttcac 120  
 ttttatttct tccatttcat tagcatttat atcagctcaa gaagttaagg ttagaaaatt 180  
 ttccacttca aattttcagt acagaaatgt gctgtgatgt ttgacaagac tatttcatag 240  
 taagtgagtt aatgtttatt ggcctctgct ctctctgtg tcagacctag gaagcctgag 300  
 gattacttag ttgttctgtc tctgggtcca caggcagaat ttggcccatc caaagactgg 360  
 ccaagtgcc aaaaaaggcc tgattaggcc ctgaaattca gtgaaattct gcctgaagaa 420  
 acctcttatt gaatttgaaa accata 446

<210> 107  
 <211> 467  
 <212> DNA  
 <213> Homo sapien

<400> 107  
 ccgcccgtgc cgtgccttc ctgggattgg agtctcgagc tttcttcgtt cgttcgcggg 60  
 cgggttcgcg cccttctcgc gcctcggggc tgcgaggctg gggaaagggg tggagggggc 120  
 tgttgatcgc cgcgtttaag ttgcgctcgg ggcggccatg tcggccggcg aggtcgagcg 180  
 cctagtgtcg gagctgagcg gcgggaccgg aggggatgag gaggaagagt ggctctatgg 240  
 cgaatgaagt gaagttgaaa ggccagaaga agaaaatgcc agtgctaata ctccatctgg 300  
 aattgaagat gaaactgctg aaaatgggtg accaaaaccg aaagtgactg agaccgaaga 360  
 tgatagtgat agtgacagcg atgatgatga agatgatgtg catgtcacta taggagacat 420  
 taaaacggga gcaccacagt atgggagtta tggtagagca cctgtaa 467

<210> 108  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<400> 108  
 gaaagataca acttcccca cccaaaccgg tttgtggagg acgacatgga taagaatgaa 60  
 atcgccctctg ttgcgtaccg ttaccgcagg tggagccttg gagatgatat tgaccttatt 120  
 gtccgtttg agcacgatgg cgtcatgact ggagccaacg gggaaagtgt cttcatcaac 180  
 atcaagacac tcaatgagtg ggattccagg cactgtaatg gcgttgactg gcgtcagaag 240  
 ctggactctc agcagagggg tgctattgcc acggagctga agaacaacag ctacaagttg 300  
 gcccggtgga cctgctgtgc tttgctgggt ggatctgagt acctcaagct tggttatgtg 360  
 tctcggtacc acgtgaaaga ctctcacgc cagctcatcc taggcacca gcagttcaag 420  
 cctaagtgtt ttgccagcca gatcaacctg agcgtggaga atgcctgagg cattttacgc 480  
 tgcgtcattg a 491



<210> 109  
 <211> 489  
 <212> DNA  
 <213> Homo sapien

<400> 109  
 ctcagatagt actgaaccct ttatcaacta tgttttttca gtctgacaac caaggcggct 60  
 actaagtgac taaggggcag gtagtatata gtgtggataa gcaggacaaa ggggtgattc 120  
 acatcccagg caggacagag caggagatca tgagatttca tcaactcagga tggcttgtga 180  
 tttattttat tttattcttt tttttttttg agatggagtc tcaactcttg ccaggctgga 240  
 gtgcagtggg gcgatcttgg ctcaactgcaa cctctgcctc ctgggttcaa gcagttctcc 300  
 tgcctcagcc tcccaagtag ctgggattac aggcgtccgc caccatgccc agccaatttt 360  
 tgtactttta gtagagatgg ggtttcacca tgttgccag gctggctcgc aactcctgac 420  
 ctcaggtgat ccactgcct cggcctccca aagtgtctgg attataggca tgcgccacca 480  
 tgcccggg

<210> 110  
 <211> 391  
 <212> DNA  
 <213> Homo sapien

<400> 110  
 gcggagtccg ctggctgacc cgagcgtgg tctccgccgg gaaccctggg gcatggagag 60  
 gtctgagtac ctccgcccg gcgcacgctg catcgcgag ccaggctgcc gctgtcccag 120  
 tggagtcca ggagcaccac ctgagtggg tgcagaatat ggcatctgag gagaagctgg 180  
 agcaggtgct gaggttccatg aaggagaaca aagtggccat cattggaaag attcataccc 240  
 cgatggagta taaggggggag ctagcctcct atgatatgcg gctgaggcgt aagttggact 300  
 tatttgccaa cgtaatccat gtgaagtcac ttctgggta tatgactcgg cacaacaatc 360  
 tagacctggt gatcattcga gagcagacag a 391

<210> 111  
 <211> 172  
 <212> PRT  
 <213> Homo sapien

<400> 111  
 Met Met Lys Leu Lys Ser Asn Gln Thr Arg Thr Tyr Asp Gly Asp Gly  
 1 5 10 15  
 Tyr Lys Lys Arg Ala Ala Cys Leu Cys Phe Arg Ser Glu Ser Glu Glu  
 20 25 30  
 Glu Val Leu Leu Val Ser Ser Ser Arg His Pro Asp Arg Trp Ile Val  
 35 40 45  
 Pro Gly Gly Gly Met Glu Pro Glu Glu Glu Pro Ser Val Ala Ala Val  
 50 55 60  
 Arg Glu Val Cys Glu Glu Ala Gly Val Lys Gly Thr Leu Gly Arg Leu  
 65 70 75 80  
 Val Gly Ile Phe Glu Asn Gln Glu Arg Lys His Arg Thr Tyr Val Tyr  
 85 90 95  
 Val Leu Ile Val Thr Glu Val Leu Glu Asp Trp Glu Asp Ser Val Asn  
 100 105 110  
 Ile Gly Arg Lys Arg Glu Trp Phe Lys Ile Glu Asp Ala Ile Lys Val  
 115 120 125  
 Leu Gln Tyr His Lys Pro Val Gln Ala Ser Tyr Phe Glu Thr Leu Arg

130                      135                      140  
 Gln Gly Tyr Ser Ala Asn Asn Gly Thr Pro Val Val Ala Thr Thr Tyr  
 145                      150                      155                      160  
 Ser Val Ser Ala Gln Ser Ser Met Ser Gly Ile Arg  
                     165                      170

<210> 112  
 <211> 247  
 <212> PRT  
 <213> Homo sapien

<400> 112  
 Arg Asn Leu Asn Arg Ile Gln Gln Arg Asn Gly Val Ile Ile Thr Thr  
 1                      5                      10                      15  
 Tyr Gln Met Leu Ile Asn Asn Trp Gln Gln Leu Ser Ser Phe Arg Gly  
                     20                      25                      30  
 Gln Glu Phe Val Trp Asp Tyr Val Ile Leu Asp Glu Ala His Lys Ile  
                     35                      40                      45  
 Lys Thr Ser Ser Thr Lys Ser Ala Ile Cys Ala Arg Ala Ile Pro Ala  
                     50                      55                      60  
 Ser Asn Arg Leu Leu Leu Thr Gly Thr Pro Ile Gln Asn Asn Leu Gln  
 65                      70                      75                      80  
 Glu Leu Trp Ser Leu Phe Asp Phe Ala Cys Gln Gly Ser Leu Leu Gly  
                     85                      90                      95  
 Thr Leu Lys Thr Phe Lys Met Glu Tyr Glu Asn Pro Ile Thr Arg Ala  
                     100                      105                      110  
 Arg Glu Lys Asp Ala Thr Pro Gly Glu Lys Ala Leu Gly Phe Lys Ile  
                     115                      120                      125  
 Ser Glu Asn Leu Met Ala Ile Ile Lys Pro Tyr Phe Leu Arg Arg Thr  
 130                      135                      140  
 Lys Glu Asp Val Gln Lys Lys Ser Ser Asn Pro Glu Ala Arg Leu  
 145                      150                      155                      160  
 Asn Glu Lys Asn Pro Asp Val Asp Ala Ile Cys Glu Met Pro Ser Leu  
                     165                      170                      175  
 Ser Arg Arg Asn Asp Leu Ile Ile Trp Ile Arg Leu Val Pro Leu Gln  
                     180                      185                      190  
 Glu Glu Ile Tyr Arg Lys Phe Val Ser Leu Asp His Ile Lys Glu Leu  
                     195                      200                      205  
 Leu Met Glu Thr Arg Ser Pro Leu Ala Glu Leu Gly Val Leu Lys Lys  
                     210                      215                      220  
 Leu Cys Asp His Pro Arg Leu Leu Ser Ala Arg Ala Cys Cys Leu Leu  
 225                      230                      235                      240  
 Asn Leu Gly Thr Phe Ser Ala  
                     245

<210> 113  
 <211> 107  
 <212> PRT  
 <213> Homo sapien

<400> 113  
 Leu Leu Cys Val Ile Lys Asp Thr Lys Leu Leu Cys Tyr Lys Ser Ser  
 1                      5                      10                      15  
 Lys Asp Gln Gln Pro Gln Met Glu Leu Pro Leu Gln Gly Cys Asn Ile

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<210> 114
<211> 155
<212> PRT
<213> Homo sapien
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<210> 115
<211> 129
<212> PRT
<213> Homo sapien
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<400> 115															
Gly	Val	Arg	Trp	Leu	Thr	Arg	Ala	Leu	Val	Ser	Ala	Gly	Asn	Pro	Gly
1				5					10					15	
Ala	Trp	Arg	Gly	Leu	Ser	Thr	Ser	Ala	Ala	Ala	His	Ala	Ala	Ser	Arg
			20					25					30		
Ser	Gln	Ala	Ala	Ala	Val	Pro	Val	Glu	Phe	Gln	Glu	His	His	Leu	Ser
		35					40					45			
Glu	Val	Gln	Asn	Met	Ala	Ser	Glu	Glu	Lys	Leu	Glu	Gln	Val	Leu	Ser
	50					55					60				
Ser	Met	Lys	Glu	Asn	Lys	Val	Ala	Ile	Ile	Gly	Lys	Ile	His	Thr	Pro

65		70		75		80									
Met	Glu	Tyr	Lys	Gly	Glu	Leu	Ala	Ser	Tyr	Asp	Met	Arg	Leu	Arg	Arg
			85					90					95		
Lys	Leu	Asp	Leu	Phe	Ala	Asn	Val	Ile	His	Val	Lys	Ser	Leu	Pro	Gly
		100					105						110		
Tyr	Met	Thr	Arg	His	Asn	Asn	Leu	Asp	Leu	Val	Ile	Ile	Arg	Glu	Gln
		115					120						125		
Thr															

<210> 116  
 <211> 550  
 <212> DNA  
 <213> Homo sapien

<400> 116	
gaattcggca ccagcctcag agccccccag cccggctacc accccctgcg gaaaggtacc	60
catctgcatt cctgcccgtc gggacctggt ggacagtcca gcctccttgg cctctagcct	120
tggtcaccg ctgcctagag ccaaggagct catcctgaat gaccttcccg ccagcactcc	180
tgcctccaaa tcctgtgact cctccccgoc ccaggacgct tccacccccca ggcccagctc	240
ggccagtcac ctctgccagc ttgctgccaa gccagcacct tccacggaca gcgtcgccct	300
gaggagcccc ctgactctgt ccagtccctt caccacgtcc ttcagcctgg gctcccacag	360
cactctcaac ggagacctct ccgtgcccag ctctacgtc agcctccacc tgtcccccca	420
ggtcagcagc tctgtggtgt acggacgctc ccccgatgag gcatttgagt ctcatcccca	480
tctccgaggg tcatccgtct ctccctccct acccagcatc cctgggggaa agccggccta	540
ctccttcac	550

<210> 117  
 <211> 154  
 <212> DNA  
 <213> Homo sapien

<400> 117	
ttctgagggg aagccgagtg gaggggcgga cccggcgggc gtgacaatga gttttcttgg	60
aggctttttt ggtcccattt gtgagattga tgttgccctt aatgatgggg aaaccaggaa	120
aatggcagaa atgaaaactg aggatggcaa agta	154

<210> 118  
 <211> 449  
 <212> DNA  
 <213> Homo sapien

<400> 118	
gaattcggca ccagggcccg cagcccaggt gtcgccgcca tggcttcgcc gcagctctgc	60
cgcgcgctgg tgtcgccgca atgggtggcg gaggcgctgc gggccccgag cgctgggcag	120
cctctgcagc tgcctggacg ctccctggtac ctgccgaagc tggggcgcgga cgcgcgacgc	180
gagttcgagg agcgccacat cccggggcgcc gctttcttcg acatcgacca gtgcagcgac	240
cgcacctcgc cctacgacca catgctgccc ggggcccagc atttcgcgga gtacgcaggc	300
cgcttggggc tgggcccggc caccacgtc gtgatctac acgccagcga ccagggcctc	360
tactccgccc cgcggtctg gtggatgttc cgcgcccttc gccaccacgc cgtgtcactg	420
cttgatggcg gcctccgcca ctggctgcg	449

<210> 119  
 <211> 642

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 119

gaattcggca	cgagcagtaa	cccgaccgcc	gctggtcttc	gctggacacc	atgaatcaca	60
ctgtccaaac	cttcttctct	cctgtcaaca	gtggccagcc	ccccaactat	gagatgctca	120
aggaggagca	cgaggtggct	gtgctggggg	cgccccacaa	ccctgctccc	ccgacgtcca	180
ccgtgatcca	catccgcagc	gagacctccg	tgcccgacca	tgctgtctgg	tccctgttca	240
acaccctctt	catgaacccc	tgctgocctg	gcttcatagc	attcgccctac	tccgtgaagt	300
ctagggacag	gaagatggtt	ggcgacgtga	ccggggccca	ggcctatgcc	tccaccgcca	360
agtgcctgaa	catctgggcc	ctgattctgg	gcatcctcat	gaccattctg	ctcatcgtca	420
tcccagtgt	gatcttccag	gcctatggat	agatcaggag	gcatcactga	ggccaggagc	480
tctgcccatt	acctgtatcc	caagtactcc	aacttccatt	cctcgccctg	cccccgagc	540
cgagtcctgt	atcagccctt	tatcctcaca	cgcttttcta	caatggcatt	caataaagtg	600
cacgtgtttc	tggtgaaaaa	aaaaaaaaaa	aaaaaactcg	ag		642

&lt;210&gt; 120

&lt;211&gt; 603

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 120

gaattcggca	cgagccacaa	cagccactac	gactgcatcc	actggatcca	cggccacccc	60
gtcctccacc	cggggaacag	ctccccctcc	caaagtgtct	accagcccgg	ccaccacacc	120
catgtccacc	atgtccacaa	tccacacctc	cttactcca	gagaccaccc	acacctccac	180
agtgttgacc	accacagcca	ccatgacaag	ggccaccaat	tccacggcca	cacctctctc	240
cactctgggg	acgaccggga	tcctcactga	gctgaccaca	acagccacta	caactgcagc	300
cactggatcc	acggccaccc	tgctctccac	cccagggacc	acctggatcc	tcacagagcc	360
gagcactata	gccaccgtga	tggtgcccac	cggttccacg	gccaccgcct	cctccactct	420
gggaacagct	cacaccccca	aagtgggtgac	caccatggcc	actatgccc	cagccactgc	480
ctccacgggt	cccagctcgt	ccaccgtggg	gaccaccgcg	acccctgcag	tgctccccag	540
cagcctgcc	accttcagcg	tgtccactgt	gtcctctca	gtcctcacca	ccctgagacc	600
cac						603

&lt;210&gt; 121

&lt;211&gt; 178

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 121

Ser	Glu	Pro	Pro	Ser	Pro	Ala	Thr	Thr	Pro	Cys	Gly	Lys	Val	Pro	Ile
1				5					10					15	
Cys	Ile	Pro	Ala	Arg	Arg	Asp	Leu	Val	Asp	Ser	Pro	Ala	Ser	Leu	Ala
			20					25					30		
Ser	Ser	Leu	Gly	Ser	Pro	Leu	Pro	Arg	Ala	Lys	Glu	Leu	Ile	Leu	Asn
			35				40					45			
Asp	Leu	Pro	Ala	Ser	Thr	Pro	Ala	Ser	Lys	Ser	Cys	Asp	Ser	Ser	Pro
			50				55				60				
Pro	Gln	Asp	Ala	Ser	Thr	Pro	Arg	Pro	Ser	Ser	Ala	Ser	His	Leu	Cys
65					70				75					80	
Gln	Leu	Ala	Ala	Lys	Pro	Ala	Pro	Ser	Thr	Asp	Ser	Val	Ala	Leu	Arg
				85				90						95	
Ser	Pro	Leu	Thr	Leu	Ser	Ser	Pro	Phe	Thr	Thr	Ser	Phe	Ser	Leu	Gly
			100					105						110	

Ser His Ser Thr Leu Asn Gly Asp Leu Ser Val Pro Ser Ser Tyr Val  
 115 120 125  
 Ser Leu His Leu Ser Pro Gln Val Ser Ser Ser Val Val Tyr Gly Arg  
 130 135 140  
 Ser Pro Val Met Ala Phe Glu Ser His Pro His Leu Arg Gly Ser Ser  
 145 150 155 160  
 Val Ser Ser Ser Leu Pro Ser Ile Pro Gly Gly Lys Pro Ala Tyr Ser  
 165 170 175  
 Phe His

<210> 122  
 <211> 36  
 <212> PRT  
 <213> Homo sapien

<400> 122  
 Met Ser Phe Leu Gly Gly Phe Phe Gly Pro Ile Cys Glu Ile Asp Val  
 1 5 10 15  
 Ala Leu Asn Asp Gly Glu Thr Arg Lys Met Ala Glu Met Lys Thr Glu  
 20 25 30  
 Asp Gly Lys Val  
 35

<210> 123  
 <211> 136  
 <212> PRT  
 <213> Homo sapien

<400> 123  
 Met Ala Ser Pro Gln Leu Cys Arg Ala Leu Val Ser Ala Gln Trp Val  
 1 5 10 15  
 Ala Glu Ala Leu Arg Ala Pro Arg Ala Gly Gln Pro Leu Gln Leu Leu  
 20 25 30  
 Asp Ala Ser Trp Tyr Leu Pro Lys Leu Gly Arg Asp Ala Arg Arg Glu  
 35 40 45  
 Phe Glu Glu Arg His Ile Pro Gly Ala Ala Phe Phe Asp Ile Asp Gln  
 50 55 60  
 Cys Ser Asp Arg Thr Ser Pro Tyr Asp His Met Leu Pro Gly Ala Glu  
 65 70 75 80  
 His Phe Ala Glu Tyr Ala Gly Arg Leu Gly Val Gly Ala Ala Thr His  
 85 90 95  
 Val Val Ile Tyr Asp Ala Ser Asp Gln Gly Leu Tyr Ser Ala Pro Arg  
 100 105 110  
 Val Trp Trp Met Phe Arg Ala Phe Gly His His Ala Val Ser Leu Leu  
 115 120 125  
 Asp Gly Gly Leu Arg His Trp Leu  
 130 135

<210> 124  
 <211> 133  
 <212> PRT  
 <213> Homo sapien

<400> 124  
 Met Asn His Thr Val Gln Thr Phe Phe Ser Pro Val Asn Ser Gly Gln  
 1 5 10 15  
 Pro Pro Asn Tyr Glu Met Leu Lys Glu Glu His Glu Val Ala Val Leu  
 20 25 30  
 Gly Ala Pro His Asn Pro Ala Pro Pro Thr Ser Thr Val Ile His Ile  
 35 40 45  
 Arg Ser Glu Thr Ser Val Pro Asp His Val Val Trp Ser Leu Phe Asn  
 50 55 60  
 Thr Leu Phe Met Asn Pro Cys Cys Leu Gly Phe Ile Ala Phe Ala Tyr  
 65 70 75 80  
 Ser Val Lys Ser Arg Asp Arg Lys Met Val Gly Asp Val Thr Gly Ala  
 85 90 95  
 Gln Ala Tyr Ala Ser Thr Ala Lys Cys Leu Asn Ile Trp Ala Leu Ile  
 100 105 110  
 Leu Gly Ile Leu Met Thr Ile Leu Leu Ile Val Ile Pro Val Leu Ile  
 115 120 125  
 Phe Gln Ala Tyr Gly  
 130

<210> 125  
 <211> 195  
 <212> PRT  
 <213> Homo sapien

<400> 125  
 Thr Thr Ala Thr Thr Thr Ala Ser Thr Gly Ser Thr Ala Thr Pro Ser  
 1 5 10 15  
 Ser Thr Pro Gly Thr Ala Pro Pro Pro Lys Val Leu Thr Ser Pro Ala  
 20 25 30  
 Thr Thr Pro Met Ser Thr Met Ser Thr Ile His Thr Ser Thr Pro  
 35 40 45  
 Glu Thr Thr His Thr Ser Thr Val Leu Thr Thr Thr Ala Thr Met Thr  
 50 55 60  
 Arg Ala Thr Asn Ser Thr Ala Thr Pro Ser Ser Thr Leu Gly Thr Thr  
 65 70 75 80  
 Arg Ile Leu Thr Glu Leu Thr Thr Thr Ala Thr Thr Thr Ala Ala Thr  
 85 90 95  
 Gly Ser Thr Ala Thr Leu Ser Ser Thr Pro Gly Thr Thr Trp Ile Leu  
 100 105 110  
 Thr Glu Pro Ser Thr Ile Ala Thr Val Met Val Pro Thr Gly Ser Thr  
 115 120 125  
 Ala Thr Ala Ser Ser Thr Leu Gly Thr Ala His Thr Pro Lys Val Val  
 130 135 140  
 Thr Thr Met Ala Thr Met Pro Thr Ala Thr Ala Ser Thr Val Pro Ser  
 145 150 155 160  
 Ser Ser Thr Val Gly Thr Thr Arg Thr Pro Ala Val Leu Pro Ser Ser  
 165 170 175  
 Leu Pro Thr Phe Ser Val Ser Thr Val Ser Ser Ser Val Leu Thr Thr  
 180 185 190  
 Leu Arg Pro  
 195

<210> 126

<211> 509  
 <212> DNA  
 <213> Homo sapien

<400> 126  
 gaattcggca cgagccaagt accccctgag gaatctgcag cctgcatctg agtacaccgt 60  
 atccctcgtg gccataaagg gcaaccaaga gagccccaaa gccactggag tctttaccac 120  
 actgcagcct gggagctcta ttccacctta caacaccgag gtgactgaga ccaccattgt 180  
 gatcacatgg acgcctgctc caagaattgg ttttaagctg ggtgtacgac caagccaggg 240  
 aggagaggca ccacgagaag tgacttcaga ctcaggaagc atcgttgtgt ccggcttgac 300  
 tccaggagta gaatacgtct acaccatcca agtcctgaga gatggacagg aaagagatgc 360  
 gccaatgtta aacaaagtgg tgacaccatt gtctccacca acaaacttgc atctggagggc 420  
 aaacctgac actggagtgc tcacagtctc ctggagagga gcaccacccc agacattact 480  
 gggatatagaa ttaccacaac ccctacaaa 509

<210> 127  
 <211> 500  
 <212> DNA  
 <213> Homo sapien

<400> 127  
 gaattcggca cgagccactg atgtccgggg agtcagccag gagcttgggg aagggaagcg 60  
 cgccccggg gccggtcccg gagggctcga tccgcatcta cagcatgagg ttctgcccgt 120  
 ttgtgagag gacgcgtcta gtcctgaagg ccaagggaat caggcatgaa gtcatcaata 180  
 tcaacctgaa aaataagcct gagtgggttct ttaagaaaaa tccctttggt ctggtgccag 240  
 ttctggaaaa cagtcagggt cagctgatct acgagtctgc catcacctgt gagtacctgg 300  
 atgaagcata cccagggaag aagctgttgc cggatgacct ctatgagaaa gcttgccaga 360  
 agatgatctt agagttgttt totaaggtgc catccttggt aggaagcttt attagaagcc 420  
 aaaataaaga agactatgct ggcctaaaag aagaatttcg taaagaattt accaagctag 480  
 aggaggttct gactaataag 500

<210> 128  
 <211> 500  
 <212> DNA  
 <213> Homo sapien

<400> 128  
 agctttctc tgctgccgt cggtcacgct tgtgcccga ggaggaaaca gtgacagacc 60  
 tggagactgc agttctctat ccttcacaca gctctttcac catgcctgga tcacttcctt 120  
 tgaatgcaga agcttgctgg ccaaaagatg tgggaattgt tgcccttgag atctattttc 180  
 cttctcaata tggtgatcaa gcagagttgg aaaaatatga tgggtgtagat gctggaaagt 240  
 ataccattgg cttgggccag gccaaagatg gcttctgcac agatagagaa gatattaact 300  
 ctctttgcat gactgtggtt cagaatctta tggagagaaa taacctttcc tatgattgca 360  
 ttgggcggt ggaagttgga acagagacaa tcatcgacaa atcaaagtct gtgaagacta 420  
 atttgatgca gctgtttgaa gagtctggga atacagatat agaaggaatc gacacaacta 480  
 atgcatgcta tggaggcaca 500

<210> 129  
 <211> 497  
 <212> DNA  
 <213> Homo sapien

<400> 129  
 gaattcggca cgagcagagg tctccagagc cttctctctc ctgtgcaaaa tggcaactct 60



taaggaaaaa	ctcattgcac	cagttgcgga	agaagaggca	acagttccaa	acaataagat	120
cactgtagtg	ggtgttgac	aagttggtat	ggcgtgtgct	atcagcattc	tgggaaagtc	180
tctggctgat	gaacttgctc	ttgtggatgt	tttggaagat	aagcttaaag	gagaaatgat	240
ggatctgcag	catgggagct	tatttcttca	gacacctaaa	attgtggcag	ataaagatta	300
ttctgtgacc	gccaatctta	agattgtagt	ggtaactgca	ggagtccgtc	agcaagaagg	360
ggagagtccg	ctcaatctgg	tgcagagaaa	tgtaaatgtc	ttcaaattca	ttattcctca	420
gatcgtcaag	tacagtcctg	attgcatcat	aattgtgggt	tccaaccag	tggacattct	480
tacgtatgtt	acctgga					497

&lt;210&gt; 130

&lt;211&gt; 383

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 130

gaattcggca	cgagggccgc	ggctgccgac	tgggtcccct	gccgctgtcg	ccaccatggc	60
tccgcaccgc	cccgcgccc	cgctgctttg	cgcgctgtcc	ctggcgctgt	gcgcgctgtc	120
gctgcccgtc	cgcgcgccca	ctgcgtcgcg	ggggcgctcc	caggcggggg	cgcgccaggg	180
gcgggtgccc	gaggcgccgc	ccaacagcat	ggtggtggaa	caccccgagt	tcctcaaggc	240
aggggaaggag	cctggcctgc	agatctggcg	tgtggagaaa	gttcgatctg	gtggcccgtg	300
cccaccaacc	tttatggaga	cttcttcacg	ggcgacgcct	acgtcatcct	gaagacagtg	360
cagcttaaga	acggaaaatc	ttg				383

&lt;210&gt; 131

&lt;211&gt; 509

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 131

gaattcggca	cgagagtcag	ccgcattctc	ttttgcgtcg	ccagccgagc	cacatcgctc	60
agacaccatg	gggaaggatg	aggtcggagt	caacggattt	ggtcgtattg	ggcgccctgg	120
caccagggct	gtttttaact	ctggtaaagt	ggatattgtt	gccatcaatg	accccttcat	180
tgacctcaac	tacatggttt	acatgttcca	atatgattcc	acccatggca	aattccatgg	240
caccgtcaag	gctgagaacg	ggaagcttgt	catcaatgga	aatcccatca	ccatcttcca	300
ggagcgagat	ccctccaaaa	tcaagtgggg	cgatgctggc	gctgagtacg	tcgtggagtc	360
cactggccgt	cttcaccacc	atggagaagg	ctggggctca	tttgcagggg	ggagccaaaa	420
gggtcatcat	ctctgcccc	tctgctgacg	cccccatgtt	cgtcatgggt	gtgaaccatg	480
agaagtatga	caacagcctc	aagatcatc				509

&lt;210&gt; 132

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 132

gaattcggca	cgagtaagaa	gaagccccta	gaccacagct	ccacaccatg	gactggacct	60
ggaggatcct	cttcttggtg	gcagcagcaa	caggtgccca	ctcccagggtg	caactgggtg	120
aatctgggtc	tgagttgaag	aagcctgggg	cctcagtga	ggtttcctgc	aaggcttctg	180
gacacatctt	cagtatctat	ggtttgaatt	gggtgcgaca	ggcccctggt	caaggccttg	240
agtggatggg	atggatcaaa	gtcgacactg	cgaacccaac	gtatgccag	ggcttcacag	300
gacgatttgt	cttctccctg	gacacctctg	tcagcaaggc	atatctgcag	atcagca	357

&lt;210&gt; 133

&lt;211&gt; 468

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 133

gaattcggca	cgaggcgccc	cgaaccgtcc	tcttgetgct	ctcggcgggc	ctggccctga	60
ccgagacctg	ggccggctcc	cactccatga	ggtatttoga	caccgccatg	tcccggcccc	120
gccgcgggga	gccccgttc	atctcagtgg	gctacgtgga	cgacacgcag	ttcgtgaggt	180
tcgacagcga	cgccgcgagt	ccgagagagg	agccgcgggc	gccgtggata	gagcaggagg	240
ggccggagta	ttgggaccgg	aacacacaga	tcttcaagac	caacacacag	actgaccgag	300
agagcctgcg	gaacctgcgc	ggctactaca	accagagcga	ggccgggtct	cacaccctcc	360
agagcatgta	cggctgcgac	gtggggccgg	acgggcgcct	cctccgcggg	cataaccagt	420
acgcctacga	cggcaaggat	tacatcgccc	tgaacgagga	cctgcgct		468

&lt;210&gt; 134

&lt;211&gt; 214

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 134

gaattcggca	cgagctgcgt	cctgetgagc	tctgttctct	ccagcacctc	ccaaccact	60
agtgcctggg	tctcttgctc	caccaggaac	aagccaccat	gtctcgccag	tcaagtgtgt	120
ccttccggag	cgggggcagt	cgtagcttca	gcaccgcctc	tgccatcacc	ccgtctgtct	180
cccgcaccag	cttcacctcc	gtgtcccggg	ccgg			214

&lt;210&gt; 135

&lt;211&gt; 355

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 135

gaattcggca	cgagggtgaac	aggaccctgc	gccatggggc	gtgtgatccg	tggacagagg	60
aagggcgcgc	ggtctgtgtt	ccgcgcgcac	gtgaagcacc	gtaaaggcgc	tgcgcgcttg	120
cgcgcctggg	atttctgtga	gcggcacggc	tacatcaagg	gcacgtcaa	ggacatcatc	180
cacgaccogg	gccgcggcgc	gcccctcgcc	aagggtgtct	tccgggatcc	gtatcggttt	240
aagaagcggg	cggagctgtt	cattgcgcgc	gagggcattc	acacgggcca	gtttgtgtat	300
tgcggaaga	aggccagct	caacattggc	aatgtgtctc	ctgtgggcac	catgc	355

&lt;210&gt; 136

&lt;211&gt; 242

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 136

gaattcggca	cgagccagct	cctaaccgcg	agtgatccgc	cagcctccgc	ctcccagagt	60
gcccggattg	cagacggagt	ctccttcaact	cagtgtctcaa	tggtgcccag	gctggagtgc	120
agtgggtgta	tctcggtcgc	ctacaacatc	cacctcccag	cagcctgcct	tggcctcca	180
aagtgccgag	attgcagctc	tctgcccggc	cgccaccctt	gtctgggaag	tgaggatgct	240
gt						242

&lt;210&gt; 137

&lt;211&gt; 424

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 137

gaattcggca	cgagcccaga	tcccagaggtc	cgacagcgcc	cggccccagat	ccccacgcct	60
gccaggagca	agccgagagc	cagccggccg	gcgcactccg	actccgagca	gtctctgtcc	120
ttcgacccga	gccccgcgcc	ctttccggga	ccccctgccc	gcgggcagcg	ctgccaacct	180
gcccggccatg	gagaccccg	cccagcggcg	cgccacccgc	agcggggcg	aggccagctc	240
cactccgctg	tcgcccaccc	gcacaccccg	gctgcaggag	aaggaggacc	tgaggagct	300
caatgatcgc	ttggcggtct	acatcgaccg	tgtgcgctcg	ctggaaacgg	agaacgcagg	360
gctgcgcctt	cgcacacccg	agtctgaaga	ggtggtcagc	cgcgaggtgt	ccggcatcaa	420
ggcc						424

&lt;210&gt; 138

&lt;211&gt; 448

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 138

gaattcggca	cgagcctgtg	ttccaggagc	cgaatcagaa	atgtcatcct	caggcacgcc	60
agacttacct	gtcctactca	cagatttgaa	gattcaatat	actaagatct	tcataaacia	120
tgaatggcat	gattcagtga	gtggcaagaa	atttcctgtc	tttaatcctg	caactgagga	180
ggagctctgc	caggtagaag	aaggagataa	ggaggatgtt	gacaaggcag	tgaaggccgc	240
aagacaggct	tttcagattg	gatccccgtg	gcgtactatg	gatgcttccg	agagggggcg	300
actattatac	aagttggctg	atttaaatga	aagagatcgt	ctgctgctgg	ccgacaatgg	360
agtcaatgaa	tgggtgaaaa	ctctattcca	atgcataatc	gaatgattta	gcaggctgca	420
tcaaaacatt	gcgctactgt	gcagggttg				448

&lt;210&gt; 139

&lt;211&gt; 510

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 139

gaattcggca	cgaggttccg	tgacagtcac	ggagaagcga	atggacaaaag	tcggcaagta	60
ccccaaaggag	ctgcgcaagt	gctgcgagga	cgccatgcgg	gagaacccca	tgaggttctc	120
gtgccagcgc	cggaccocgt	tcactctccct	ggcgaggcgt	gcaagaagg	cttcctggac	180
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tacgaagctc	atgaatatat	ttttgaaaga	ctccatcacc	acgtgggaga	ttctggctgt	420
gagcatgtcg	gacaagaaaag	ggatctgtgt	ggcagacccc	ttcgagggtca	cagtaatgca	480
ggacttcttc	atcgacctgc	ggctacccta				510

&lt;210&gt; 140

&lt;211&gt; 360

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 140

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cgatgttttg	gggtcaaac	ccaatgctac	tcagggaagaa	ttgaaaaagg	cttataggaa	180
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ttctcaagct	tacgaagttc	tctctgatgc	aaagaaaagg	gaattatatg	acaaaggagg	300
agaacaggca	attaaagagg	gtggagcagg	tggcggtttt	ggctcccca	tggacatctt	360

<210> 141  
 <211> 483  
 <212> DNA  
 <213> Homo sapien

<400> 141  
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 gtgggatgca aatcttcgtg aagacactca ctggcaagac catcaccctt gaggtggagc 180  
 ccagtgcacac catcgagaac gtcaaagcaa agatccagga caaggaaggc attcctcctg 240  
 accagcagag gttgatcttt gccggaaaagc agctggaaga tgggcgcacc ctgtctgact 300  
 acaacatcca gaaagagtct accctgcacc tgggtgctccg tctcagaggt gggatgcaga 360  
 tcttcgtgaa gaccctgact ggtaagacca tcacctcga ggtggagccc agtgacacca 420  
 tcgagaatgt caaggcaaa atccaagata aggaaggcat tcctcctgat cagcagaggt 480  
 tga 483

<210> 142  
 <211> 500  
 <212> DNA  
 <213> Homo sapien

<400> 142  
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 gaatcaccac atgttggttg agctgaaaaa tggggagacg tacaatggac acctggtgag 180  
 ctgcgacaac tggatgaaca ttaacctgcg agaagtcatc tgcacgtcca gggacgggga 240  
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 ccccgacgag atcatcgaca tggatcaagga ggaggtggtg gccaaagggc gcggcccgcg 360  
 aggcctgcag cagcagaagc agcagaaaag ccgcggcatg ggcggcgctg gccgaggtgt 420  
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 gcctggcaga caggcgggca 500

<210> 143  
 <211> 400  
 <212> DNA  
 <213> Homo sapien

<400> 143  
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 ctgcgggctg cttcggggcca gggctgaccc gagggccagc gcaagcagcg gcaacaggag 180  
 cgccaggagg acatgaggct ctgcctgcag tcagcaactt ggaatattca gacttcagac 240  
 cagcatcaca gattataacc ctccgtaaat catctgcac ccagctccca tcaaaagcca 300  
 gcctgaagga cccatggaca cgtgactcca gtgttctcaa caacatctta gatcaagttg 360  
 gtttgcaaaa catttgcatc tacttgggac aaagcaagaa 400

<210> 144  
 <211> 243  
 <212> DNA  
 <213> Homo sapien

<400> 144  
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agtgggtgtga tctcggctcg ctacaacatc cacctcccag cagcctgcct tggcctccca 180
aagtgccgag attgcagcct ctgcccgcc gtcaccccgct ctgggaagtg aggagcggtt 240
ctg 243

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<210> 145
<211> 450
<212> DNA
<213> Homo sapien

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<400> 145
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tggaggtggc cgtggaggca gaggtggcat gggcggaagt gaccgtggtg gcttcaataa 180
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caacaccatc tttgtgcaag gcctgggtga gaatgttaca attgagtctg tggctgatta 300
cttcaagcag attggtatta ttaagacaaa caagaaaacg ggacagccca tgattaat tt 360
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<210> 146
<211> 451
<212> DNA
<213> Homo sapien

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<400> 146
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cttcagtcgc gagacagacg gggcgagcaa gggcggatg ctgcactgtg tgcagcgcg 180
gctgatccgc accaggagct gggcgacgag aagatccaga tcgtgagcca gatggtggag 240
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gagctgggcg acacagcggg caacagcgcg aaggctggcg cggacaggcc caaaggcgag 360
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aaccgtgaga acgctccag caaccacgac c 451

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<210> 147
<211> 400
<212> DNA
<213> Homo sapien

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<400> 147
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ctgcgggctg cttcgggcca gggctgaccc gagggccagc gcaagcagcg gcaacaggag 180
cgccaggagg acatgaggct ctgcctgcag tcagcaactt ggaatattca gacttcagac 240
cagcatcaca gattataacc ctccgtaaat catctgcac ccagctccca tcaaaagcca 300
gcctgaagga cccatggaca cgtgactcca gtgttctcaa caacatctta gatcaagttg 360
gtttgcacaa catttgcatc tacttgggac aaagcaagaa 400

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<210> 148
<211> 503
<212> DNA
<213> Homo sapien

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<400> 148

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actcaaagct	gcctcttgat	gtc				503

&lt;210&gt; 149

&lt;211&gt; 1061

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 149

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&lt;210&gt; 150

&lt;211&gt; 781

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 150

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tgaggttaaca	tacgtggagc	tcttaattgga	cgctgaaggga	aagtcaaggg	gatgtgctgt	360
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781

<210> 151  
 <211> 3275  
 <212> DNA  
 <213> Homo sapien

<400> 151

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&lt;210&gt; 152

&lt;211&gt; 2179

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 152

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<210> 153  
 <211> 2109  
 <212> DNA  
 <213> Homo sapien

<400> 153

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&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 155

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&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 156

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&lt;211&gt; 2313

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 157

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&lt;211&gt; 2114

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 158

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&lt;211&gt; 278

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 159

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&lt;213&gt; Homo sapien

&lt;400&gt; 160

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catctacagc	atgaggttct	gcccgtttgc	tgagaggacg	cgtctagtcc	tgaaggccaa	180
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tgacccttat	gagaaaagctt	gccagaagat	gatcttagag	ttgttttcta	aggtgccatc	420
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catgaaggaa	gatcccacag	tctcagccct	gcttactagt	gagaaagact	ggcaagggtt	720
cctagagctc	tacttacaga	acagccctga	ggcctgtgac	tatgggctct	gaagggggca	780
ggagtcagca	ataaagctat	gtctgatatt	ttccttcact	aaaaaaaaaa	aaaaaaaaaa	840
aactcgag						848

&lt;210&gt; 161

&lt;211&gt; 432

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 161

gaattcggca	cgagggcaga	ccaagatcct	ggaggaggac	ctggaacaga	tcaagctgtc	60
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ggaaggggaag	ggcccaagta	aagcacagcg	cgggagccta	gagcacatga	agctgatcct	180
gcgtgataag	gagaaggagg	tggaatgtca	gcaggagcat	atccatgaac	tccaggagct	240
caaagaccag	ctggagcagc	agctccaggg	cctgcacagg	aaggtaggtg	agaccagcct	300
cctcctgtcc	cagcgagagc	aggaaatagt	ggtcctgcag	cagcaactgc	aggaagccag	360
ggaacaagg	gagctgaagg	agcagtcact	tcagagtcaa	ctggatgagg	cccagagagc	420
cctagcccag	ag					432

&lt;210&gt; 162

&lt;211&gt; 433

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 162

gattcggcac	gagccggagc	tgggttgtc	ctgctcccgt	ctccaagtcc	tggtacctcc	60
ttcaagctgg	gagagggctc	tagtccctgg	ttctgaacac	tctggggttc	tcgggtgcag	120
gccgccatga	gcaaaccgaa	ggcgccgcag	gagactctca	acgggggaat	caccgacatg	180
ctcacagaac	tcgcaaaact	tgagaagaac	gtgagccaag	ctatccacaa	gtacaatgct	240
tacagaaaag	cagcatctgt	tatagcaaaa	taccacacaa	aaataaagag	tgagagctgaa	300
gctaagaaat	tgcttgagtg	aggaacaaaa	attgctgaaa	agattgatga	gttttttagca	360
actggaaaat	tacgtaaact	ggaaaagatt	cggcaggatg	atacagagttc	atccatcaat	420
ttcctgactc	gag					433

&lt;210&gt; 163

&lt;211&gt; 432

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 163

gaattcggca	ccagatgagg	ccaacgaggt	gacggacagc	gcgtacatgg	gctccgagag	60
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gctgcaacct	gaaggggacg	cagacagtgc	cggcggtctg	gccgtgccct	ctgagtgcct	180
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ccatggccag	tctgtcatca	cggtgatcgg	gggcgaggag	cactttgagg	actacgggtga	300
aggcagtga	gcggagctgt	ccccagagac	cctatgcaac	gggcagctgg	gctgcagtga	360
ccccgctttc	ctcacgcccc	gtccgacaaa	gcggctctcc	agcaagaagg	tggcaaggta	420
cctgcaccag	tc					432

&lt;210&gt; 164

&lt;211&gt; 395

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 164

gacacttgaa	tcattgggtga	cgttaaaaaat	tttctgtatg	cctgggtgtgg	caaaaggaag	60
atgaccccat	cctatgaaat	tagagcagtg	gggaacaaaa	acaggcagaa	attcatgtgt	120
gaggttcagg	tggaagggtta	taattacact	ggcatgggaa	attccaccaa	taaaaaagat	180
gcacaaagca	atgctgccag	agactttgtt	aactatttgg	ttcgaataaa	tgaataaag	240
agtgaagaag	ttccagcttt	tggggtagca	tctccgcccc	cacttactga	tactcctgac	300

actacagcaa atgctgaagg catcttgttg acatcgaata tgactttgat aataaatacc 360  
 ggttcctgaa aaaaaaaaaa aaaaaaaaaac tcgag 395

<210> 165  
 <211> 503  
 <212> DNA  
 <213> Homo sapien

<400> 165  
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 agatggtgaa agaaacaact tactacgatg ttttgggggt caaacccaat gctactcagg 180  
 aagaattgaa aaaggcttat aggaaactgg ccttgaagta ccattcctgat aagaacccaa 240  
 atgaaggaga gaagtttaaa cagattttctc aagcttacga agttctctct gatgcaaaga 300  
 aaagggaatt atatgacaaa ggaggagaac aggcaattaa agagggtgga gcagggtggc 360  
 gttttggctc ccccatggac atctttgata tgttttttgg aggaggagga aggatgcaga 420  
 gagaaaggag aggtaaaaat gttgtacatc agctctcagt aaccctagaa gacttatata 480  
 atggtgcaac aagaaaactg gct 503

<210> 166  
 <211> 893  
 <212> DNA  
 <213> Homo sapien

<400> 166  
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 gctgggccag aggtgccaac atggggaaac tgaggctcgg ctcggaaggg tgagagttag 120  
 actacatctc aaaaaaaaaa aaaaaaaaaa aaaagaaaga aaagaaaaga aaaaagaaag 180  
 aacggaagta gttgtaggtg gtggtatggt ggtatgagtc tgttttctgt tacttataac 240  
 aacaacaaca acaaaaaacg ctgaaactgg gtaatttata aagaaaagga aaaaagcag 300  
 aaaaaaatca ggaagaagag aaaggaaaag aagacaaata aatgaaattt atgtattaca 360  
 gttctgaagg ctgagacatc ccaggccaag ggtccacact tggcgagggc tttcttgctg 420  
 gtggagactc tttgtggagt cctgggacag tgcagaagga tcacgcctcc ctaccgctcc 480  
 aagcccagcc ctccagccatg gcatgcccc tggatcaggc cattggcctc ctctggcca 540  
 tcttccacaa gtactccggc agggagggtg acaagcacac cctgagcaag aaggagctga 600  
 aggagctgat ccagaaggag ctccaccattg gctcgaagct gcaggatgct gaaattgcaa 660  
 ggctgatgga agacttggac cggaacaagg accaggaggt gaacttccag gagtatgtca 720  
 ccttcctggg ggccttggct ttgatctaca atgaagccct caagggtgta aaataaatag 780  
 ggaagatgga gacaccctct gggggctctc tctgagtcaa atccagtggg gggtaattgt 840  
 acaataaatt ttttttggctc aaatttaaaa aaaaaaaaaa aaaaaaactc gag 893

<210> 167  
 <211> 549  
 <212> DNA  
 <213> Homo sapien

<400> 167  
 gaattcggca cgagcccaga tcccagaggtc cgacagcgcc cggcccagat ccccacgcct 60  
 gccaggagca agccgagagc cagccggccg gcgcactccg actccgagca gtctctgtcc 120  
 ttccagccga gccccgcgcc ctttccggga cccctgcccc gcgggcagcg ctgccaacct 180  
 gccggccatg gagaccccg cccagcggcg cgccaccgcg agcggggcgc aggccagctc 240  
 cactccgctg tcgcccaccc gcatcaccgc gctgcaggag aaggaggacc tgcaggagct 300  
 caatgatcgc ttggcgggtc acatcgaccg tgtgcgctcg ctggaaacgg agaacgcagg 360  
 gctgcgcctt cgcacacccg agtctgaaga ggtggtcagc cgcgagggtg ccggcatcaa 420

ggccgcctac	gaggccgagc	tcggggatgc	ccgcaagacc	cttgactcag	tagccaagga	480
gcgcgcccgc	ctgcagctgg	agctgagcaa	agtgcgtgaa	gagtttaagg	agctgaaagc	540
gcgcaatac						549

&lt;210&gt; 168

&lt;211&gt; 547

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 168

gaattcggca	cgagatggcg	gcaggggtcg	aagcggcggc	ggaggtggcg	gcgacggaga	60
tcaaaatgga	ggaagagagc	ggcgcgcccg	gcgtgccgag	cggcaacggg	gctccggggc	120
ctaagggtga	aggagaacga	cctgctcaga	atgagaagag	gaaggagaaa	aacataaaaa	180
gaggaggcaa	tcgctttgag	ccatatgcc	atccaactaa	aagatacaga	gccttcatta	240
caaacatacc	ttttgatgtg	aaatggcagt	cacttaaaga	cctggttaaa	gaaaaagttg	300
gtgaggtaac	atacgtggag	ctcttaattg	acgctgaagg	aaagtcaagg	ggatgtgctg	360
ttgttgaaatt	caagatggaa	gagagcatga	aaaaagctgc	ggaagtccta	aacaagcata	420
gtctgagcgg	aagaccactg	aaagtcaaa	aagatcctga	tggatgaacat	gccaggagag	480
caatgcaaaa	ggctggaaga	cttgggaagca	cagtatttgt	agcaaatctg	gattataaag	540
ttggcgtg						547

&lt;210&gt; 169

&lt;211&gt; 547

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 169

gaattcggca	ccaggagtcc	gactgtgctc	gctgctcagc	gccgcacccg	gaagatgagg	60
ctcgccgtgg	gagccctgct	ggtctgcgcc	gtcctggggc	tgtgtctgga	tgtccctgat	120
aaaactgtga	gatggtgtgc	agtgtcggag	catgaggcca	ctaagtgcc	gagtttccgc	180
gaccatatga	aaagcgtcat	tccatccgat	ggtcccagtg	ttgcttgtgt	gaagaaagcc	240
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ttctatgggt	caaaaagagga	tccacagact	ttctattatg	ctgttgctgt	ggtgaagaag	420
gatagtggct	tccagatgaa	ccagcttcga	ggcaagaagt	cctgccacac	gggtctaggc	480
aggtccgctg	ggtggaacat	ccccataggc	ttactttact	gtgacttacc	tgagccacgt	540
aaacctc						547

&lt;210&gt; 170

&lt;211&gt; 838

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 170

gaattcggca	ccagaggagc	tcggcctgcg	ctgcgccacg	atgtccgggg	agtcagccag	60
gagcttgggg	aagggaagcg	cgcccccg	gccgggtccc	gagggctcga	tccgcatcta	120
cagcatgagg	ttctgcccgt	ttgctgagag	gacgcgtcta	gtcctgaagg	ccaagggaat	180
caggcatgaa	gtcatcaata	tcaacctgaa	aaataagcct	gagtggttct	ttaagaaaaa	240
tcccttttgt	ctggtgccag	ttctggaaaa	cagtcagggt	cagctgatct	acgagtctgc	300
catcacctgt	gagtacctgg	atgaagcata	cccagggaag	aagctgttgc	cggatgaccc	360
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taaagaattt	accaagctag	aggaggttct	gactaataag	aagacgacct	tctttggtgg	540
caattctatc	tctatgattg	attacctcat	ctggccctgg	tttgaacggc	tgaagcaat	600



gaagttaa	at	gagtgt	gtag	accacact	cc	aaaact	gaaa	ctgtgg	gatgg	cagccat	gaa	660
ggaagat	ccc	acagtct	cag	ccctgctt	ac	tagtgaga	aaa	gactgg	caag	gtttcct	taga	720
gctctact	ta	cagaac	agcc	ctgagg	cctg	tgactat	ggg	ctctga	aggg	ggcagg	agtc	780
agcaataa	aag	ctatgt	ctga	tattttc	ctt	cactaaaa	aaa	aaaaaaa	aaa	aactcg	ag	838

&lt;210&gt; 171

&lt;211&gt; 547

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 171

gaattc	ggca	ccagc	gggat	ttggg	tcgca	gttctt	gtttt	gtggat	tgt	gtgat	cgta	60
cttgaca	aatg	cagatc	ttcg	tgaag	actct	gactgg	taag	accatc	accc	tcgag	gttga	120
gcccagt	gac	accatc	gaga	atgtca	aggc	aaagat	ccaa	gataag	gaag	gcaccc	ctcc	180
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ctacaac	atc	cagaa	agagt	ccacc	ctgca	cctgg	tgtc	ggtctc	agag	gtggg	atgca	300
aatcttc	gtg	aagac	actca	ctggc	aagac	catcac	ccct	gaggtc	gagc	ccagt	gacac	360
catcgag	aac	gtcaa	agcaa	agatc	cagga	caagg	aaggc	attcct	cctg	accag	cagag	420
gttgatc	ttt	gcggg	aaaagc	agctg	gaaga	tgggc	gcacc	ctgtct	gact	acaac	atcca	480
gaaagag	tct	acctg	gcacc	tgggt	gtccg	tctcag	aggt	gggat	gcaga	tcttc	gtgaa	540
gaccctg												547

&lt;210&gt; 172

&lt;211&gt; 608

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 172

gaattc	ggca	ccagag	actt	ctccct	ctga	ggcctg	cgca	ccctc	ctca	tcagc	ctgtc	60
caccctc	atc	tacaat	gggtg	ccctg	ccatg	tcagt	gcaac	cctca	aggtt	cactg	agttc	120
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tgacctg	tgt	gcccct	gggt	actat	ggctt	tggccc	aca	ggctgt	caag	gcgctt	gcct	240
gggtgc	ccgt	gatcac	acag	ggggt	gagca	ctgtg	aaaag	tgcat	tgt	gttcc	acgg	300
ggaccac	cg	ctgcc	atag	ggggc	agtg	ccggc	ccctgt	ccctgt	ccctg	aaggc	ccctg	360
gagcca	acgg	cacttt	tgcta	cttctt	tgcca	ccagg	atgaa	tattcc	cagc	agatt	gtgtg	420
ccactgc	ccg	gcagg	ctata	cgggg	ctgcg	atgtg	aaagt	tgtgc	ccctg	ggcact	tttg	480
ggaccac	atca	aggcc	aggtg	gcoggt	tgcca	actgt	gtgag	tgcat	gtgga	acatt	gaccc	540
aatggat	cct	gatgc	ctgtg	accccc	acac	ggggc	aatgc	ctgcg	ctgtt	tacacc	acac	600
agaggg	tc											608

&lt;210&gt; 173

&lt;211&gt; 543

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 173

gaattc	ggca	ccagag	atca	tccgc	ccagca	gggtct	ggcc	tcctac	gact	acgtgc	gcgcg	60
ccgcctc	acg	gctgag	gacc	tgctc	gaggc	tcggat	catc	tctctc	gaga	cctaca	aacct	120
gctccgg	gag	ggcacc	agga	gcctcc	gtga	ggctct	cgag	gcggag	tccg	cctggt	gcta	180
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catctac	cag	gctct	caaga	aagggt	ctgct	gagtg	ccgag	gtggcc	cgcc	tgctgt	tgga	300
ggcacag	gca	gccac	aggct	tcctgt	ctgga	cccggt	gaag	gggga	acggc	tgact	gtgga	360
tgaagct	gtg	cggaag	ggcc	tcgtg	gggcc	cgaact	gcac	gaccgc	ctgc	tctcgg	ctga	420
gcgggc	ggtc	accgg	ctacc	gtgacc	cccta	caccg	agcag	accat	ctcgc	tcttc	aggc	480

catgaagaag gaactgatcc ctactgagga ggccctgcgg ctgtggatgc ccagctggcc 540  
acc 543

<210> 174  
<211> 548  
<212> DNA  
<213> Homo sapien

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gatcaaaatg gaggaagaga gcggcgcgcc cggcgtgccg agcggcaacg gggctccggg 120  
ccctaagggt gaaggagAAC gacctgctca gaatgagaag aggaaggaga aaaacataaa 180  
aagaggaggc aatcgctttg agccatagtc caatccaact aaaagataca gagccttcat 240  
tacaacata ccttttgatg tgaaatggca gtcacttaaa gacctgggta aagaaaaagt 300  
tggtgaggtg acatacgtgg agctcttaat ggacgctgaa ggaaagtcaa ggggatgtgc 360  
tggtgttgaa ttcaagatgg aagagagcat gaaaaaagct gcggaagtcc taaacaagca 420  
tagtctgagc ggaagaccac tgaaagtcaa agaagatcct gatggtgaac atgccaggag 480  
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aatgatta 548

<210> 175  
<211> 604  
<212> DNA  
<213> Homo sapien

<400> 175  
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cgaggccatc ctggccatcc acaaggaggc ccagaggatc gctgagagca accacatcaa 180  
gctgtcgggc agcaaccctt acaccaccgt caccgccgaa atcatcaact ccaagtggga 240  
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gcagccaacc gagcacctgc gccgccagtt cgccagccag gccaatgttg tggggccctg 360  
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ggacctgctg gagcagcagc accagcttat ccaggaggcc ctcatcttcg acaacaagca 540  
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ccgg 604

<210> 176  
<211> 486  
<212> DNA  
<213> Homo sapien

<400> 176  
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aggcgaaaga gtggatggca acagtctaat tgtaggatat gtaataggaa ctcaacaagc 180  
taccacaggc cccgcataca gtggtcgaga gacaatatac cccaatgcat cctgctgat 240  
ccagaacgtc acccagaatg acacaggatt ctatacccta caagtcataa agtcagatct 300  
tgtgaatgaa gaagcaaccg gacagttcca tgtatacccg gagctgcca agccctccat 360  
ctccagcaac aactccaacc ccgtggagga caaggatgct gtggccttca cctgtgaacc 420  
tgaggttcag aacacaacct acctgtggtg ggtaaattgt cagagcctcc cggtcagtcc 480  
caaggc 486

<210> 177  
 <211> 387  
 <212> DNA  
 <213> Homo sapien

<400> 177  
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 ctcgcccccct cccacagat ggtgcatccc ctggcagagg ctctgtctca cagcctcaact 180  
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 tgtcgacagag gggaaggagg tgcttctact tgtccacaat ctgccccagc atctttttgg 300  
 ctacagctgg taaaaaggtg aaagagtgga tggcaaccgt caaattatag gatatgtaat 360  
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<210> 178  
 <211> 440  
 <212> DNA  
 <213> Homo sapien

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 aactaaagga gacagcagaa gaagagaaaag atgatttgga agagaggctt atgaatcaat 240  
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 aaaatgagct attggaatct gaaatgaaga accttaaaaa gtgtgtgagt gaattggaag 360  
 aagaaaagca gcagtttagtc aaggaaaaaa ctaagggtgga atcagaaata cgaaaggaat 420  
 atttgagaa aatacaaggt 440

<210> 179  
 <211> 443  
 <212> DNA  
 <213> Homo sapien

<400> 179  
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 ctacctggac aaggtgcgcg ccctggaggc ggccaacggc gagctagagg tgaagatccg 180  
 cgactggtac cagaagcagg ggctggggcc ctcccgcgac tacagccact actacacgac 240  
 catccaggac ctgcgggaca agattcttg tgcaccatt gagaactcca ggattgtcct 300  
 gcagatcgac aacgcccgtc tggctgcaga tgacttccga accaagtttg agacggaaca 360  
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 gaccctggcc aggaccgacc tgg 443

<210> 180  
 <211> 403  
 <212> DNA  
 <213> Homo sapien

<400> 180  
 gaattcggca cgaggttatg agagtcgact tcaatgttcc tatgaagaac aaccagataa 60  
 caaacaacca gaggattaag gctgctgtcc caagcatcaa attctgcttg gacaatggag 120  
 ccaagtccgt agtccttatg agccacctag gccggcctga tgggtgtgcc atgcctgaca 180  
 agtactcctt agagccagtt gctgtagaac tcagatctct gctgggcaag gatgttctgt 240

tottgaagga ctgtgtaggc ccagaagtgg agaaagcctg tgccaaccca gctgctgggt 300  
 ctgtcatcct gctggagaac ctccgctttc atgtggagga agaagggaag ggaaaagatg 360  
 cttctgggaa caagggttaa gccgagccag ccaaaataga agc 403

<210> 181

<211> 493

<212> DNA

<213> Homo sapien

<400> 181

gaattcggca ccagcagagg tctccagagc cttctctctc ctgtgcaaaa tggcaactct 60  
 taaggaaaaa ctcatcgcac cagttgcgga agaagaggca acagttccaa acaataagat 120  
 cactgtagtg ggtgttgac aagttggat gccgtgtgct atcagcattc tgggaaagtc 180  
 tctggctgat gaacttgctc ttgtggatgt tttggaagat aagcttaaag gagaaatgat 240  
 ggatctgcag catgggagct tatttcttca gacacctaaa attgtggcag ataaagatta 300  
 ttctgtgacc gccaatctta agattgtagt ggtaactgca ggagtccgtc agcaagaagg 360  
 ggagagtcgg ctcaatctgg tgcagagaaa tgtaaatgtc ttcaaattca ttattcctca 420  
 gatcgtcaag tacagtctg attgcatcat aattgtggtt tccaaccagcagg tggacattct 480  
 tacgtatggt acc 493

<210> 182

<211> 209

<212> PRT

<213> Homo sapien

<400> 182

Ala Phe Ser Ser Asn Pro Lys Val Gln Val Glu Ala Ile Glu Gly Gly  
 1 5 10 15  
 Ala Leu Gln Lys Leu Leu Val Ile Leu Ala Thr Glu Gln Pro Leu Thr  
 20 25 30  
 Ala Lys Lys Lys Val Leu Phe Ala Leu Cys Ser Leu Leu Arg His Phe  
 35 40 45  
 Pro Tyr Ala Gln Arg Gln Phe Leu Lys Leu Gly Gly Leu Gln Val Leu  
 50 55 60  
 Arg Thr Leu Val Gln Glu Lys Gly Thr Glu Val Leu Ala Val Arg Val  
 65 70 75 80  
 Val Thr Leu Leu Tyr Asp Leu Val Thr Glu Lys Met Phe Ala Glu Glu  
 85 90 95  
 Glu Ala Glu Leu Thr Gln Glu Met Ser Pro Glu Lys Leu Gln Gln Tyr  
 100 105 110  
 Arg Gln Val His Leu Leu Pro Gly Leu Trp Glu Gln Gly Trp Cys Glu  
 115 120 125  
 Ile Thr Ala His Leu Leu Ala Leu Pro Glu His Asp Ala Arg Glu Lys  
 130 135 140  
 Val Leu Gln Thr Leu Gly Val Leu Leu Thr Thr Cys Arg Asp Arg Tyr  
 145 150 155 160  
 Arg Gln Asp Pro Gln Leu Gly Arg Thr Leu Ala Ser Leu Gln Ala Glu  
 165 170 175  
 Tyr Gln Val Leu Ala Ser Leu Glu Leu Gln Asp Gly Glu Asp Glu Gly  
 180 185 190  
 Tyr Phe Gln Glu Leu Leu Gly Ser Val Asn Ser Leu Leu Lys Glu Leu  
 195 200 205  
 Arg

<210> 183  
 <211> 255  
 <212> PRT  
 <213> Homo sapien

<400> 183  
 Met Ala Ala Gly Val Glu Ala Ala Ala Glu Val Ala Ala Thr Glu Pro  
 1 5 10 15  
 Lys Met Glu Glu Glu Ser Gly Ala Pro Cys Val Pro Ser Gly Asn Gly  
 20 25 30  
 Ala Pro Gly Pro Lys Gly Glu Glu Arg Pro Thr Gln Asn Glu Lys Arg  
 35 40 45  
 Lys Glu Lys Asn Ile Lys Arg Gly Gly Asn Arg Phe Glu Pro Tyr Ser  
 50 55 60  
 Asn Pro Thr Lys Arg Tyr Arg Ala Phe Ile Thr Asn Ile Pro Phe Asp  
 65 70 75 80  
 Val Lys Trp Gln Ser Leu Lys Asp Leu Val Lys Glu Lys Val Gly Glu  
 85 90 95  
 Val Thr Tyr Val Glu Leu Leu Met Asp Ala Glu Gly Lys Ser Arg Gly  
 100 105 110  
 Cys Ala Val Val Glu Phe Lys Met Glu Glu Ser Met Lys Lys Ala Ala  
 115 120 125  
 Glu Val Leu Asn Lys His Ser Leu Ser Gly Arg Pro Leu Lys Val Lys  
 130 135 140  
 Glu Asp Pro Asp Gly Glu His Ala Arg Arg Ala Met Gln Lys Ala Gly  
 145 150 155 160  
 Arg Leu Gly Ser Thr Val Phe Val Ala Asn Leu Asp Tyr Lys Val Gly  
 165 170 175  
 Trp Lys Lys Leu Lys Glu Val Phe Ser Met Ala Gly Val Val Val Arg  
 180 185 190  
 Ala Asp Ile Leu Glu Asp Lys Asp Gly Lys Ser Arg Gly Ile Gly Ile  
 195 200 205  
 Val Thr Phe Glu Gln Ser Ile Glu Ala Val Gln Ala Ile Ser Met Phe  
 210 215 220  
 Asn Gly Gln Leu Leu Phe Asp Arg Pro Met His Val Lys Met Asp Glu  
 225 230 235 240  
 Arg Ala Leu Pro Lys Gly Asp Phe Phe Pro Pro Glu Arg His Ser  
 245 250 255

<210> 184  
 <211> 188  
 <212> PRT  
 <213> Homo sapien

<400> 184  
 Leu Ser Gly Ser Cys Ile Arg Arg Glu Gln Thr Pro Glu Lys Glu Lys  
 1 5 10 15  
 Gln Val Val Leu Phe Glu Glu Ala Ser Trp Thr Cys Thr Pro Ala Cys  
 20 25 30  
 Gly Asp Glu Pro Arg Thr Val Ile Leu Leu Ser Ser Met Leu Ala Asp  
 35 40 45  
 His Arg Leu Lys Leu Glu Asp Tyr Lys Asp Arg Leu Lys Ser Gly Glu  
 50 55 60

His Leu Asn Pro Asp Gln Leu Glu Ala Val Glu Lys Tyr Glu Glu Val  
 65 70 75 80  
 Leu His Asn Leu Glu Phe Ala Lys Glu Leu Gln Lys Thr Phe Ser Gly  
 85 90 95  
 Leu Ser Leu Asp Leu Leu Lys Ala Gln Lys Lys Ala Gln Arg Arg Glu  
 100 105 110  
 His Met Leu Lys Leu Glu Ala Glu Lys Lys Lys Leu Arg Thr Ile Leu  
 115 120 125  
 Gln Val Gln Tyr Val Leu Gln Asn Leu Thr Gln Glu His Val Gln Lys  
 130 135 140  
 Asp Phe Lys Gly Gly Leu Asn Gly Ala Val Tyr Leu Pro Ser Lys Glu  
 145 150 155 160  
 Leu Asp Tyr Leu Ile Lys Phe Ser Lys Leu Thr Cys Pro Glu Arg Asn  
 165 170 175  
 Glu Ser Leu Arg Gln Thr Leu Glu Gly Ser Thr Val  
 180 185

<210> 185

<211> 746

<212> PRT

<213> Homo sapien

<400> 185

Asp Lys His Leu Lys Asp Leu Leu Ser Lys Leu Leu Asn Ser Gly Tyr  
 1 5 10 15  
 Phe Glu Ser Ile Pro Val Pro Lys Asn Ala Lys Glu Lys Glu Val Pro  
 20 25 30  
 Leu Glu Glu Glu Met Leu Ile Gln Ser Glu Lys Lys Thr Gln Leu Ser  
 35 40 45  
 Lys Thr Glu Ser Val Lys Glu Ser Glu Ser Leu Met Glu Phe Ala Gln  
 50 55 60  
 Pro Glu Ile Gln Pro Gln Glu Phe Leu Asn Arg Arg Tyr Met Thr Glu  
 65 70 75 80  
 Val Asp Tyr Ser Asn Lys Gln Gly Glu Glu Gln Pro Trp Glu Ala Asp  
 85 90 95  
 Tyr Ala Arg Lys Pro Asn Leu Pro Lys Arg Trp Asp Met Leu Thr Glu  
 100 105 110  
 Pro Asp Gly Gln Glu Lys Lys Gln Glu Ser Phe Lys Ser Trp Glu Ala  
 115 120 125  
 Ser Gly Lys His Gln Glu Val Ser Lys Pro Ala Val Ser Leu Glu Gln  
 130 135 140  
 Arg Lys Gln Asp Thr Ser Lys Leu Arg Ser Thr Leu Pro Glu Glu Gln  
 145 150 155 160  
 Lys Lys Gln Glu Ile Ser Lys Ser Lys Pro Ser Pro Ser Gln Trp Lys  
 165 170 175  
 Gln Asp Thr Pro Lys Ser Lys Ala Gly Tyr Val Gln Glu Glu Gln Lys  
 180 185 190  
 Lys Gln Glu Thr Pro Lys Leu Trp Pro Val Gln Leu Gln Lys Glu Gln  
 195 200 205  
 Asp Pro Lys Lys Gln Thr Pro Lys Ser Trp Thr Pro Ser Met Gln Ser  
 210 215 220  
 Glu Gln Asn Thr Thr Lys Ser Trp Thr Thr Pro Met Cys Glu Glu Gln  
 225 230 235 240  
 Asp Ser Lys Gln Pro Glu Thr Pro Lys Ser Trp Glu Asn Asn Val Glu

				245					250					255		
Ser	Gln	Lys	His	Ser	Leu	Thr	Ser	Gln	Ser	Gln	Ile	Ser	Pro	Lys	Ser	
			260					265					270			
Trp	Gly	Val	Ala	Thr	Ala	Ser	Leu	Ile	Pro	Asn	Asp	Gln	Leu	Leu	Pro	
		275					280					285				
Arg	Lys	Leu	Asn	Thr	Glu	Pro	Lys	Asp	Val	Pro	Lys	Pro	Val	His	Gln	
	290					295					300					
Pro	Val	Gly	Ser	Ser	Ser	Thr	Leu	Pro	Lys	Asp	Pro	Val	Leu	Arg	Lys	
305					310					315					320	
Glu	Lys	Leu	Gln	Asp	Leu	Met	Thr	Gln	Ile	Gln	Gly	Thr	Cys	Asn	Phe	
				325					330					335		
Met	Gln	Glu	Ser	Val	Leu	Asp	Phe	Asp	Lys	Pro	Ser	Ser	Ala	Ile	Pro	
			340					345					350			
Thr	Ser	Gln	Pro	Pro	Ser	Ala	Thr	Pro	Gly	Ser	Pro	Val	Ala	Ser	Lys	
		355					360					365				
Glu	Gln	Asn	Leu	Ser	Ser	Gln	Ser	Asp	Phe	Leu	Gln	Glu	Pro	Leu	Gln	
	370					375					380					
Val	Phe	Asn	Val	Asn	Ala	Pro	Leu	Pro	Pro	Arg	Lys	Glu	Gln	Glu	Ile	
385					390					395					400	
Lys	Glu	Ser	Pro	Tyr	Ser	Pro	Gly	Tyr	Asn	Gln	Ser	Phe	Thr	Thr	Ala	
				405					410						415	
Ser	Thr	Gln	Thr	Pro	Pro	Gln	Cys	Gln	Leu	Pro	Ser	Ile	His	Val	Glu	
			420					425					430			
Gln	Thr	Val	His	Ser	Gln	Glu	Thr	Ala	Ala	Asn	Tyr	His	Pro	Asp	Gly	
		435					440					445				
Thr	Ile	Gln	Val	Ser	Asn	Gly	Ser	Leu	Ala	Phe	Tyr	Pro	Ala	Gln	Thr	
	450					455					460					
Asn	Val	Phe	Pro	Arg	Pro	Thr	Gln	Pro	Phe	Val	Asn	Ser	Arg	Gly	Ser	
465					470					475					480	
Val	Arg	Gly	Cys	Thr	Arg	Gly	Gly	Arg	Leu	Ile	Thr	Asn	Ser	Tyr	Arg	
			485						490					495		
Ser	Pro	Gly	Gly	Tyr	Lys	Gly	Phe	Asp	Thr	Tyr	Arg	Gly	Leu	Pro	Ser	
		500						505					510			
Ile	Ser	Asn	Gly	Asn	Tyr	Ser	Gln	Leu	Gln	Phe	Gln	Ala	Arg	Glu	Tyr	
		515					520					525				
Ser	Gly	Ala	Pro	Tyr	Ser	Gln	Arg	Asp	Asn	Phe	Gln	Gln	Cys	Tyr	Lys	
	530					535					540					
Arg	Gly	Gly	Thr	Ser	Gly	Gly	Pro	Arg	Ala	Asn	Ser	Arg	Ala	Gly	Trp	
545					550					555					560	
Ser	Asp	Ser	Ser	Gln	Val	Ser	Ser	Pro	Glu	Arg	Asp	Asn	Glu	Thr	Phe	
				565					570					575		
Asn	Ser	Gly	Asp	Ser	Gly	Gln	Gly	Asp	Ser	Arg	Ser	Met	Thr	Pro	Val	
		580						585								

675	680	685
Val Leu Val Ser Ala Tyr	Ala Asn Asp Gly Ala	Pro Asp His Glu Thr
690	695	700
Ala Ser Asn His Ala Ile	Leu Gln Leu Phe	Gln Gly Asp Gln Ile Trp
705	710	715
Leu Arg Leu His Arg Gly	Ala Ile Tyr Gly	Ser Ser Trp Lys Tyr Ser
	725	730
Thr Phe Ser Gly Tyr Leu	Leu Tyr Gln Asp	
	740	745

&lt;210&gt; 186

&lt;211&gt; 705

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 186

Ala Leu Leu Asn Val Arg	Gln Pro Pro Ser Thr Thr Thr Phe Val Leu
1	5 10 15
Asn Gln Ile Asn His Leu	Pro Pro Leu Gly Ser Thr Ile Val Met Thr
	20 25 30
Lys Thr Pro Pro Val Thr	Thr Asn Arg Gln Thr Ile Thr Leu Thr Lys
	35 40 45
Phe Ile Gln Thr Thr Ala	Ser Thr Arg Pro Ser Val Ser Ala Pro Thr
	50 55 60
Val Arg Asn Ala Met Thr	Ser Ala Pro Ser Lys Asp Gln Val Gln Leu
65	70 75 80
Lys Asp Leu Leu Lys Asn	Asn Ser Leu Asn Glu Leu Met Lys Leu Lys
	85 90 95
Pro Pro Ala Asn Ile Ala	Gln Pro Val Ala Thr Ala Ala Thr Asp Val
	100 105 110
Ser Asn Gly Thr Val Lys	Lys Glu Ser Ser Asn Lys Glu Gly Ala Arg
	115 120 125
Met Trp Ile Asn Asp Met	Lys Met Arg Ser Phe Ser Pro Thr Met Lys
	130 135 140
Val Pro Val Val Lys Glu	Asp Asp Glu Pro Glu Glu Glu Asp Glu Glu
145	150 155 160
Glu Met Gly His Ala Glu	Thr Tyr Ala Glu Tyr Met Pro Ile Lys Leu
	165 170 175
Lys Ile Gly Leu Arg His	Pro Asp Ala Val Val Glu Thr Ser Ser Leu
	180 185 190
Ser Ser Val Thr Pro Pro	Asp Val Trp Tyr Lys Thr Ser Ile Ser Glu
	195 200 205
Glu Thr Ile Asp Asn Gly	Trp Leu Ser Ala Leu Gln Leu Glu Ala Ile
	210 215 220
Thr Tyr Ala Ala Gln Gln	His Glu Thr Phe Leu Pro Asn Gly Asp Arg
225	230 235 240
Ala Gly Phe Leu Ile Gly	Asp Gly Ala Gly Val Gly Lys Gly Arg Thr
	245 250 255
Ile Ala Gly Ile Ile Tyr	Glu Asn Tyr Leu Leu Ser Arg Lys Arg Ala
	260 265 270
Leu Trp Phe Ser Val Ser	Asn Asp Leu Lys Tyr Asp Ala Glu Arg Asp
	275 280 285
Leu Arg Asp Ile Gly Ala	Lys Asn Ile Leu Val His Ser Leu Asn Lys
	290 295 300



Phe Lys Tyr Gly Lys Ile Ser Ser Lys His Asn Gly Ser Val Lys Lys  
 305 310 315 320  
 Gly Val Ile Phe Ala Thr Tyr Ser Ser Leu Ile Gly Glu Ser Gln Ser  
 325 330 335  
 Gly Gly Lys Tyr Lys Thr Arg Leu Lys Gln Leu Leu His Trp Cys Gly  
 340 345 350  
 Asp Asp Phe Asp Gly Val Ile Val Phe Asp Glu Cys His Lys Ala Lys  
 355 360 365  
 Asn Leu Cys Pro Val Gly Ser Ser Lys Pro Thr Lys Thr Gly Leu Ala  
 370 375 380  
 Val Leu Glu Leu Gln Asn Lys Leu Pro Lys Ala Arg Val Val Tyr Ala  
 385 390 395 400  
 Ser Ala Thr Gly Ala Ser Glu Pro Arg Asn Met Ala Tyr Met Asn Arg  
 405 410 415  
 Leu Gly Ile Trp Gly Glu Gly Thr Pro Phe Arg Glu Phe Ser Asp Phe  
 420 425 430  
 Ile Gln Ala Val Glu Arg Arg Gly Val Gly Ala Met Glu Ile Val Ala  
 435 440 445  
 Met Asp Met Lys Leu Arg Gly Met Tyr Ile Ala Arg Gln Leu Ser Phe  
 450 455 460  
 Thr Gly Val Thr Phe Lys Ile Glu Glu Val Leu Leu Ser Gln Ser Tyr  
 465 470 475 480  
 Val Lys Met Tyr Asn Lys Ala Val Lys Leu Trp Val Ile Ala Arg Glu  
 485 490 495  
 Arg Phe Gln Gln Ala Ala Asp Leu Ile Asp Ala Glu Gln Arg Met Lys  
 500 505 510  
 Lys Ser Met Trp Gly Gln Phe Trp Ser Ala His Gln Arg Phe Phe Lys  
 515 520 525  
 Tyr Leu Cys Ile Ala Ser Lys Val Lys Arg Val Val Gln Leu Ala Arg  
 530 535 540  
 Glu Glu Ile Lys Asn Gly Lys Cys Val Val Ile Gly Leu Gln Ser Thr  
 545 550 555 560  
 Gly Glu Ala Arg Thr Leu Glu Ala Leu Glu Glu Gly Gly Gly Glu Leu  
 565 570 575  
 Asn Asp Phe Val Ser Thr Ala Lys Gly Val Leu Gln Ser Leu Ile Glu  
 580 585 590  
 Lys His Phe Pro Ala Pro Asp Arg Lys Lys Leu Tyr Ser Leu Leu Gly  
 595 600 605  
 Ile Asp Leu Thr Ala Pro Ser Asn Asn Ser Ser Pro Arg Asp Ser Pro  
 610 615 620  
 Cys Lys Glu Asn Lys Ile Lys Lys Arg Lys Gly Glu Glu Ile Thr Arg  
 625 630 635 640  
 Glu Ala Lys Lys Ala Arg Lys Val Gly Gly Leu Thr Gly Ser Ser Ser  
 645 650 655  
 Asp Asp Ser Gly Ser Glu Ser Asp Ala Ser Asp Asn Glu Glu Ser Asp  
 660 665 670  
 Tyr Glu Ser Ser Lys Asn Met Ser Ser Gly Asp Asp Asp Asp Phe Asn  
 675 680 685  
 Pro Phe Leu Asp Glu Ser Asn Glu Asp Asp Glu Asn Asp Pro Trp Leu  
 690 695 700  
 Ile  
 705

<211> 595  
 <212> PRT  
 <213> Homo sapien

<400> 187

Glu	Ser	Pro	Arg	His	Arg	Gly	Glu	Gly	Gly	Gly	Glu	Trp	Gly	Pro	Gly
1				5					10					15	
Val	Pro	Arg	Glu	Arg	Arg	Glu	Ser	Ala	Gly	Glu	Trp	Gly	Ala	Asp	Thr
			20					25					30		
Pro	Lys	Glu	Gly	Gly	Glu	Ser	Ala	Gly	Glu	Trp	Gly	Ala	Glu	Val	Pro
		35					40					45			
Arg	Gly	Arg	Gly	Glu	Gly	Ala	Gly	Glu	Trp	Gly	Pro	Asp	Thr	Pro	Lys
	50					55					60				
Glu	Arg	Gly	Gln	Gly	Val	Arg	Glu	Trp	Gly	Pro	Glu	Ile	Pro	Gln	Glu
65					70					75				80	
His	Gly	Glu	Ala	Thr	Arg	Asp	Trp	Ala	Leu	Glu	Ser	Pro	Arg	Ala	Leu
				85					90					95	
Gly	Glu	Asp	Ala	Arg	Glu	Leu	Gly	Ser	Ser	Pro	His	Asp	Arg	Gly	Ala
			100					105					110		
Ser	Pro	Arg	Asp	Leu	Ser	Gly	Glu	Ser	Pro	Cys	Thr	Gln	Arg	Ser	Gly
		115					120					125			
Leu	Leu	Pro	Glu	Arg	Arg	Gly	Asp	Ser	Pro	Trp	Pro	Pro	Trp	Pro	Ser
	130					135					140				
Pro	Gln	Glu	Arg	Asp	Ala	Gly	Thr	Arg	Asp	Arg	Glu	Glu	Ser	Pro	Arg
145					150					155					160
Asp	Trp	Gly	Gly	Ala	Glu	Ser	Pro	Arg	Gly	Trp	Glu	Ala	Gly	Pro	Arg
				165					170					175	
Glu	Trp	Gly	Pro	Ser	Pro	Ser	Gly	His	Gly	Asp	Gly	Pro	Arg	Arg	Arg
			180					185					190		
Pro	Arg	Lys	Arg	Arg	Gly	Arg	Lys	Arg	Met	Gly	Arg	Gln	His	Glu	
		195					200					205			
Ala	Ala	Ala	Thr	Ala	Ala	Thr	Ala	Ala	Thr	Ala	Thr	Gly	Gly	Thr	Ala
	210					215						220			
Glu	Glu	Ala	Gly	Ala	Ser	Ala	Pro	Glu	Ser	Gln	Ala	Gly	Gly	Gly	Pro
225					230					235					240
Arg	Gly	Arg	Ala	Arg	Gly	Pro	Arg	Gln	Gln	Gly	Arg	Arg	Arg	His	Gly
				245						250				255	
Thr	Gln	Arg	Arg	Arg	Gly	Pro	Pro	Gln	Ala	Arg	Glu	Glu	Gly	Pro	Arg
			260					265					270		
Asp	Ala	Thr	Thr	Ile	Leu	Gly	Leu	Gly	Thr	Pro	Ser	Gly	Glu	Gln	Arg
	275					280						285			
Ala	Asp	Gln	Ser	Gln	Ala	Leu	Pro	Ala	Leu	Ala	Gly	Ala	Ala	Ala	Ala
	290					295					300				
His	Ala	His	Ala	Ile	Pro	Gly	Ala	Gly	Pro	Ala	Ala	Ala	Pro	Val	Gly
305					310					315					320
Gly	Arg	Gly	Arg	Arg	Gly	Gly	Trp	Arg	Gly	Gly	Arg	Arg	Gly	Gly	Ser
				325					330				335		
Ala	Gly	Ala	Gly	Gly	Gly	Gly	Arg	Gly	Gly	Arg	Gly	Arg	Gly	Arg	Gly
			340					345					350		
Gly	Gly	Arg	Gly	Gly	Gly	Gly	Ala	Gly	Arg	Gly	Gly	Gly	Ala	Ala	Gly
		355					360					365			
Pro	Arg	Glu	Gly	Ala	Ser	Ser	Pro	Gly	Ala	Arg	Arg	Gly	Glu	Gln	Arg
	370					375						380			
Arg	Arg	Gly	Arg	Gly	Pro	Pro	Ala	Ala	Gly	Ala	Ala	Gln	Val	Ser	Ala

385                      390                      395                      400  
 Arg Gly Arg Arg Ala Arg Gly Gln Arg Ala Gly Glu Glu Ala Gln Asp  
                                  405                      410                      415  
 Gly Leu Leu Pro Arg Gly Arg Asp Arg Leu Pro Leu Arg Pro Gly Asp  
                                  420                      425                      430  
 Ala Asn Gln Arg Ala Glu Arg Pro Gly Pro Pro Arg Gly Gly His Gly  
                                  435                      440                      445  
 Pro Val Asn Ala Ser Ser Ala Pro Asp Thr Ser Pro Pro Arg His Pro  
                                  450                      455                      460  
 Arg Arg Trp Val Ser Gln Gln Arg Gln Arg Leu Trp Arg Gln Phe Arg  
 465                                   470                      475                      480  
 Val Gly Gly Gly Phe Pro Pro Pro Pro Ser Arg Pro Pro Ala Val  
                                  485                      490                      495  
 Leu Leu Pro Leu Leu Arg Leu Ala Cys Ala Gly Asp Pro Gly Ala Thr  
                                  500                      505                      510  
 Arg Pro Gly Pro Arg Arg Pro Ala Arg Arg Pro Arg Gly Glu Leu Ile  
                                  515                      520                      525  
 Pro Arg Arg Pro Asp Pro Ala Ala Pro Ser Glu Glu Gly Leu Arg Met  
                                  530                      535                      540  
 Glu Ser Ser Val Asp Asp Gly Ala Thr Ala Thr Thr Ala Asp Ala Ala  
 545                                   550                      555                      560  
 Ser Gly Glu Ala Pro Glu Ala Gly Pro Ser Pro Ser His Ser Pro Thr  
                                  565                      570                      575  
 Met Cys Gln Thr Gly Gly Pro Gly Pro Pro Pro Pro Gln Pro Pro Arg  
                                  580                      585                      590  
 Trp Leu Pro  
                                  595

<210> 188  
 <211> 376  
 <212> PRT  
 <213> Homo sapien

<400> 188  
 Glu Met Arg Lys Phe Asp Val Pro Ser Met Glu Ser Thr Leu Asn Gln  
 1                                   5                                   10                                   15  
 Pro Ala Met Leu Glu Thr Leu Tyr Ser Asp Pro His Tyr Arg Ala His  
                                  20                                   25                                   30  
 Phe Pro Asn Pro Arg Pro Asp Thr Asn Lys Asp Val Tyr Lys Val Leu  
                                  35                                   40                                   45  
 Pro Glu Ser Lys Lys Ala Pro Gly Ser Gly Ala Val Phe Glu Arg Asn  
                                  50                                   55                                   60  
 Gly Pro His Ala Ser Ser Ser Gly Val Leu Pro Leu Gly Leu Gln Pro  
 65                                   70                                   75                                   80  
 Ala Pro Gly Leu Ser Lys Ser Leu Ser Ser Gln Val Trp Gln Pro Ser  
                                  85                                   90                                   95  
 Pro Asp Pro Trp His Pro Gly Glu Gln Ser Cys Glu Leu Ser Thr Cys  
                                  100                                   105                                   110  
 Arg Gln Gln Leu Glu Leu Ile Arg Leu Gln Met Glu Gln Met Gln Leu  
                                  115                                   120                                   125  
 Gln Asn Gly Ala Met Cys His His Pro Ala Ala Phe Ala Pro Leu Leu  
                                  130                                   135                                   140  
 Pro Thr Leu Glu Pro Ala Gln Trp Leu Ser Ile Leu Asn Ser Asn Glu  
 145                                   150                                   155                                   160

His Leu Leu Lys Glu Lys Glu Leu Leu Ile Asp Lys Gln Arg Lys His  
 165 170 175  
 Ile Ser Gln Leu Glu Gln Lys Val Arg Glu Ser Glu Leu Gln Val His  
 180 185 190  
 Ser Ala Leu Leu Gly Arg Pro Ala Pro Phe Gly Asp Val Cys Leu Leu  
 195 200 205  
 Arg Leu Gln Glu Leu Gln Arg Glu Asn Thr Phe Leu Arg Ala Gln Phe  
 210 215 220  
 Ala Gln Lys Thr Glu Ala Leu Ser Lys Glu Lys Met Glu Leu Glu Lys  
 225 230 235 240  
 Lys Leu Ser Ala Ser Glu Val Glu Ile Gln Leu Ile Arg Glu Ser Leu  
 245 250 255  
 Lys Val Thr Leu Gln Lys His Ser Glu Glu Gly Lys Lys Gln Glu Glu  
 260 265 270  
 Arg Val Lys Gly Arg Asp Lys His Ile Asn Asn Leu Lys Lys Lys Cys  
 275 280 285  
 Gln Lys Glu Ser Glu Gln Asn Arg Glu Lys Gln Gln Arg Ile Glu Thr  
 290 295 300  
 Leu Glu Arg Tyr Leu Ala Asp Leu Pro Thr Leu Glu Asp His Gln Lys  
 305 310 315 320  
 Gln Thr Glu Gln Leu Lys Asp Ala Glu Leu Lys Asn Thr Glu Leu Gln  
 325 330 335  
 Glu Arg Val Ala Glu Leu Glu Thr Leu Leu Glu Asp Thr Gln Ala Thr  
 340 345 350  
 Cys Arg Glu Lys Glu Val Gln Leu Glu Ser Leu Arg Gln Arg Glu Ala  
 355 360 365  
 Asp Leu Ser Ser Ala Arg His Arg  
 370 375

&lt;210&gt; 189

&lt;211&gt; 160

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 189

Met Leu Glu Ala His Arg Arg Gln Arg His Pro Phe Leu Leu Leu Gly  
 1 5 10 15  
 Thr Thr Ala Asn Arg Thr Gln Ser Leu Asn Tyr Gly Cys Ile Val Glu  
 20 25 30  
 Asn Pro Gln Thr His Glu Val Leu His Tyr Val Glu Lys Pro Ser Thr  
 35 40 45  
 Phe Ile Ser Asp Ile Ile Asn Cys Gly Ile Tyr Leu Phe Ser Pro Glu  
 50 55 60  
 Ala Leu Lys Pro Leu Arg Asp Val Phe Gln Arg Asn Gln Gln Asp Gly  
 65 70 75 80  
 Gln Leu Glu Asp Ser Pro Gly Leu Trp Pro Gly Ala Gly Thr Ile Arg  
 85 90 95  
 Leu Glu Gln Asp Val Phe Ser Ala Leu Ala Gly Gln Gly Gln Ile Tyr  
 100 105 110  
 Val His Leu Thr Asp Gly Ile Trp Ser Gln Ile Lys Ser Ala Gly Ser  
 115 120 125  
 Ala Leu Tyr Ala Ser Arg Leu Tyr Leu Ser Arg Tyr Gln Asp Thr His  
 130 135 140  
 Pro Glu Arg Leu Ala Lys His Thr Pro Gly Gly Pro Trp Ile Arg Gly

145

150

155

160

&lt;210&gt; 190

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 190

Met Asp Pro Arg Ala Ser Leu Leu Leu Leu Gly Asn Val Tyr Ile His  
 1 5 10 15  
 Pro Thr Ala Lys Val Ala Pro Ser Ala Val Leu Gly Pro Asn Val Ser  
 20 25 30  
 Ile Gly Lys Gly Val Thr Val Gly Glu Gly Val Arg Leu Arg Glu Ser  
 35 40 45  
 Ile Val Leu His Gly Ala Thr Leu Gln Glu His Thr Cys Val Leu His  
 50 55 60  
 Ser Ile Val Gly Trp Gly Ser Thr Val Gly Arg Trp Ala Arg Val Glu  
 65 70 75 80  
 Gly Thr Pro Ser Asp Pro Asn Pro Asn Asp Pro Arg Ala Arg Met Asp  
 85 90 95  
 Ser Glu Ser Leu Phe Lys Asp Gly Lys Leu Leu Pro Ala Ile Thr Ile  
 100 105 110  
 Leu Gly Cys Arg Val Arg Ile Pro Ala Glu Val Leu Ile Leu Asn Ser  
 115 120 125  
 Ile Val Leu Pro His Lys Glu Leu Ser Arg Ser Phe Thr Asn Gln Ile  
 130 135 140  
 Ile Leu  
 145

&lt;210&gt; 191

&lt;211&gt; 704

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 191

Glu Gly Gly Cys Ala Ala Gly Arg Gly Arg Glu Leu Glu Pro Glu Leu  
 1 5 10 15  
 Glu Pro Gly Pro Gly Pro Gly Ser Ala Leu Glu Pro Gly Glu Glu Phe  
 20 25 30  
 Glu Ile Val Asp Arg Ser Gln Leu Pro Gly Pro Gly Asp Leu Arg Ser  
 35 40 45  
 Ala Thr Arg Pro Arg Ala Ala Glu Gly Trp Ser Ala Pro Ile Leu Thr  
 50 55 60  
 Leu Ala Arg Arg Ala Thr Gly Asn Leu Ser Ala Ser Cys Gly Ser Ala  
 65 70 75 80  
 Leu Arg Ala Ala Ala Gly Leu Gly Gly Gly Asp Ser Gly Asp Gly Thr  
 85 90 95  
 Ala Arg Ala Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala Asn Leu  
 100 105 110  
 Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser Ala Leu  
 115 120 125  
 Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln Gln Phe  
 130 135 140  
 Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val Lys Lys

145                      150                      155                      160  
 Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu Leu Val  
                                  165                      170                      175  
 Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val Arg Asn  
                                  180                      185                      190  
 Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp Leu Tyr  
                                  195                      200                      205  
 Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val Leu Ile  
                                  210                      215                      220  
 Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala Leu Met  
 225                                   230                      235                      240  
 Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly Leu Asn  
                                  245                      250                      255  
 Val Leu Asp Ala Asn Leu Cys Leu Lys Gly Glu Asp Leu Asp Ser Gln  
                                  260                      265                      270  
 Val Gly Val Ile Asp Phe Ser Leu Tyr Leu Lys Asp Val Gln Asp Leu  
                                  275                      280                      285  
 Asp Gly Gly Lys Glu His Glu Arg Ile Thr Asp Val Leu Asp Gln Lys  
                                  290                      295                      300  
 Asn Tyr Val Glu Glu Leu Asn Arg His Leu Ser Cys Thr Val Gly Asp  
 305                                   310                      315                      320  
 Leu Gln Thr Lys Ile Asp Gly Leu Glu Lys Thr Asn Ser Lys Leu Gln  
                                  325                      330                      335  
 Glu Glu Leu Ser Ala Ala Thr Asp Arg Ile Cys Ser Leu Gln Glu Glu  
                                  340                      345                      350  
 Gln Gln Gln Leu Arg Glu Gln Asn Glu Leu Ile Arg Glu Arg Ser Glu  
                                  355                      360                      365  
 Lys Ser Val Glu Ile Thr Lys Gln Asp Thr Lys Val Glu Leu Glu Thr  
                                  370                      375                      380  
 Tyr Lys Gln Thr Arg Gln Gly Leu Asp Glu Met Tyr Ser Asp Val Trp  
 385                                   390                      395                      400  
 Lys Gln Leu Lys Glu Glu Lys Lys Val Arg Leu Glu Leu Glu Lys Glu  
                                  405                      410                      415  
 Leu Glu Leu Gln Ile Gly Met Lys Thr Glu Met Glu Ile Ala Met Lys  
                                  420                      425                      430  
 Leu Leu Glu Lys Asp Thr His Glu Lys Gln Asp Thr Leu Val Ala Leu  
                                  435                      440                      445  
 Arg Gln Gln Leu Glu Glu Val Lys Ala Ile Asn Leu Gln Met Phe His  
                                  450                      455                      460  
 Lys Ala Gln Asn Ala Glu Ser Ser Leu Gln Gln Lys Asn Glu Ala Ile  
 465                                   470                      475                      480  
 Thr Ser Phe Glu Gly Lys Thr Asn Gln Val Met Ser Ser Met Lys Gln  
                                  485                      490                      495  
 Met Glu Glu Arg Leu Gln His Ser Glu Arg Ala Arg Gln Gly Ala Glu  
                                  500                      505                      510  
 Glu Arg Ser His Lys Leu Gln Gln Glu Leu Gly Gly Arg Ile Gly Ala  
                                  515                      520                      525  
 Leu Gln Leu Gln Leu Ser Gln Leu His Glu Gln Cys Ser Ser Leu Glu  
                                  530                      535                      540  
 Lys Glu Leu Lys Ser Glu Lys Glu Gln Arg Gln Ala Leu Gln Arg Glu  
 545                                   550                      555                      560  
 Leu Gln His Glu Lys Asp Thr Ser Ser Leu Leu Arg Met Glu Leu Gln  
                                  565                      570                      575  
 Gln Val Glu Gly Leu Lys Lys Glu Leu Arg Glu Leu Gln Asp Glu Lys



Glu Glu Cys Lys Glu Lys Arg Gly Ile Ile Pro Leu Asp Ala His Cys  
 260 265 270  
 Cys Val Glu Val Leu Pro Asp Arg Asp Gly Lys Arg Cys Met Phe Cys  
 275 280 285  
 Val Lys Thr Ala Thr Arg Thr Tyr Glu Met Ser Ala Ser Asp Thr Arg  
 290 295 300  
 Gln Arg Gln Glu Trp Thr Ala Ala Ile Gln Met Ala Ile Arg Leu Gln  
 305 310 315 320  
 Ala Glu Gly Lys Thr Ser Leu His Lys Asp Leu  
 325 330

<210> 193

<211> 475

<212> PRT

<213> Homo sapien

<400> 193

Lys Asn Ser Pro Leu Leu Ser Val Ser Ser Gln Thr Ile Thr Lys Glu  
 1 5 10 15  
 Asn Asn Arg Asn Val His Leu Glu His Ser Glu Gln Asn Pro Gly Ser  
 20 25 30  
 Ser Ala Gly Asp Thr Ser Ala Ala His Gln Val Val Leu Gly Glu Asn  
 35 40 45  
 Leu Ile Ala Thr Ala Leu Cys Leu Ser Gly Ser Gly Ser Gln Ser Asp  
 50 55 60  
 Leu Lys Asp Val Ala Ser Thr Ala Gly Glu Glu Gly Asp Thr Ser Leu  
 65 70 75 80  
 Arg Glu Ser Leu His Pro Val Thr Arg Ser Leu Lys Ala Gly Cys His  
 85 90 95  
 Thr Lys Gln Leu Ala Ser Arg Asn Cys Ser Glu Glu Lys Ser Pro Gln  
 100 105 110  
 Thr Ser Ile Leu Lys Glu Gly Asn Arg Asp Thr Ser Leu Asp Phe Arg  
 115 120 125  
 Pro Val Val Ser Pro Ala Asn Gly Val Glu Gly Val Arg Val Asp Gln  
 130 135 140  
 Asp Asp Asp Gln Asp Ser Ser Ser Leu Lys Leu Ser Gln Asn Ile Ala  
 145 150 155 160  
 Val Gln Thr Asp Phe Lys Thr Ala Asp Ser Glu Val Asn Thr Asp Gln  
 165 170 175  
 Asp Ile Glu Lys Asn Leu Asp Lys Met Met Thr Glu Arg Thr Leu Leu  
 180 185 190  
 Lys Glu Arg Tyr Gln Glu Val Leu Asp Lys Gln Arg Gln Val Glu Asn  
 195 200 205  
 Gln Leu Gln Val Gln Leu Lys Gln Leu Gln Gln Arg Arg Glu Glu Glu  
 210 215 220  
 Met Lys Asn His Gln Glu Ile Leu Lys Ala Ile Gln Asp Val Thr Ile  
 225 230 235 240  
 Lys Arg Glu Glu Thr Lys Lys Lys Ile Glu Lys Glu Lys Lys Glu Phe  
 245 250 255  
 Leu Gln Lys Glu Gln Asp Leu Lys Ala Glu Ile Glu Lys Leu Cys Glu  
 260 265 270  
 Lys Gly Arg Arg Glu Val Trp Glu Met Glu Leu Asp Arg Leu Lys Asn  
 275 280 285  
 Gln Asp Gly Glu Ile Asn Arg Asn Ile Met Glu Glu Thr Glu Arg Ala



290                      295                      300  
 Trp Lys Ala Glu Ile Leu Ser Leu Glu Ser Arg Lys Glu Leu Leu Val  
 305                      310                      315                      320  
 Leu Lys Leu Glu Glu Ala Glu Lys Glu Ala Glu Leu His Leu Thr Tyr  
                     325                      330                      335  
 Leu Lys Ser Thr Pro Pro Thr Leu Glu Thr Val Arg Ser Lys Gln Glu  
                     340                      345                      350  
 Trp Glu Thr Arg Leu Asn Gly Val Arg Ile Met Lys Lys Asn Val Arg  
                     355                      360                      365  
 Asp Gln Phe Asn Ser His Ile Gln Leu Val Arg Asn Gly Ala Lys Leu  
 370                      375                      380  
 Ser Ser Leu Pro Gln Ile Pro Thr Pro Thr Leu Pro Pro Pro Pro Ser  
 385                      390                      395                      400  
 Glu Thr Asp Phe Met Leu Gln Val Phe Gln Pro Ser Pro Ser Leu Ala  
                     405                      410                      415  
 Pro Arg Met Pro Phe Ser Ile Gly Gln Val Thr Met Pro Met Val Met  
                     420                      425                      430  
 Pro Ser Ala Asp Pro Arg Ser Leu Ser Phe Pro Ile Leu Asn Pro Ala  
                     435                      440                      445  
 Leu Ser Gln Pro Ser Gln Pro Ser Ser Pro Leu Pro Gly Ser His Gly  
 450                      455                      460  
 Arg Asn Ser Pro Gly Leu Gly Ser Leu Val Ser  
 465                      470                      475

<210> 194  
 <211> 241  
 <212> PRT  
 <213> Homo sapien

<400> 194  
 Met Ser Gly Glu Ser Ala Arg Ser Leu Gly Lys Gly Ser Ala Pro Pro  
 1                      5                      10                      15  
 Gly Pro Val Pro Glu Gly Ser Ile Arg Ile Tyr Ser Met Arg Phe Cys  
                     20                      25                      30  
 Pro Phe Ala Glu Arg Thr Arg Leu Val Leu Lys Ala Lys Gly Ile Arg  
                     35                      40                      45  
 His Glu Val Ile Asn Ile Asn Leu Lys Asn Lys Pro Glu Trp Phe Phe  
 50                      55                      60  
 Lys Lys Asn Pro Phe Gly Leu Val Pro Val Leu Glu Asn Ser Gln Gly  
 65                      70                      75                      80  
 Gln Leu Ile Tyr Glu Ser Ala Ile Thr Cys Glu Tyr Leu Asp Glu Ala  
                     85                      90                      95  
 Tyr Pro Gly Lys Lys Leu Leu Pro Asp Asp Pro Tyr Glu Lys Ala Cys  
                     100                      105                      110  
 Gln Lys Met Ile Leu Glu Leu Phe Ser Lys Val Pro Ser Leu Val Gly  
                     115                      120                      125  
 Ser Phe Ile Arg Ser Gln Asn Lys Glu Asp Tyr Ala Gly Leu Lys Glu  
 130                      135                      140  
 Glu Phe Arg Lys Glu Phe Thr Lys Leu Glu Glu Val Leu Thr Asn Lys  
 145                      150                      155                      160  
 Lys Thr Thr Phe Phe Gly Gly Asn Ser Ile Ser Met Ile Asp Tyr Leu  
                     165                      170                      175  
 Ile Trp Pro Trp Phe Glu Arg Leu Glu Ala Met Lys Leu Asn Glu Cys  
                     180                      185                      190

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<210> 195
<211> 138
<212> PRT
<213> Homo sapien
```

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<210> 196
<211> 102
<212> PRT
<213> Homo sapien
```

<400> 196															
Met 1	Ser	Lys	Arg	Lys 5	Ala	Pro	Gln	Glu	Thr 10	Leu	Asn	Gly	Gly	Ile 15	Thr
Asp	Met	Leu	Thr 20	Glu	Leu	Ala	Asn 25	Phe	Glu	Lys	Asn	Val 30	Ser	Gln	Ala
Ile	His 35	Lys	Tyr	Asn	Ala	Tyr	Arg 40	Lys	Ala	Ala	Ser	Val 45	Ile	Ala	Lys
Tyr 50	Pro	His	Lys	Ile	Lys	Ser 55	Gly	Ala	Glu	Ala	Lys 60	Lys	Leu	Pro	Gly
Val 65	Gly	Thr	Lys	Ile 70	Ala	Glu	Lys	Ile	Asp 75	Glu	Phe	Leu	Ala	Thr 80	Gly
Lys	Leu	Arg	Lys	Leu 85	Glu	Lys	Ile	Arg 90	Gln	Asp	Asp	Thr	Ser 95	Ser	Ser
Ile	Asn	Phe	Leu 100	Thr	Arg										

<210> 197  
 <211> 138  
 <212> PRT  
 <213> Homo sapien

<400> 197  
 Glu Ala Asn Glu Val Thr Asp Ser Ala Tyr Met Gly Ser Glu Ser Thr  
 1 5 10 15  
 Tyr Ser Glu Cys Glu Thr Phe Thr Asp Glu Asp Thr Ser Thr Leu Val  
 20 25 30  
 His Pro Glu Leu Gln Pro Glu Gly Asp Ala Asp Ser Ala Gly Gly Ser  
 35 40 45  
 Ala Val Pro Ser Glu Cys Leu Asp Ala Met Glu Glu Pro Asp His Gly  
 50 55 60  
 Ala Leu Leu Leu Leu Pro Gly Arg Pro His Pro His Gly Gln Ser Val  
 65 70 75 80  
 Ile Thr Val Ile Gly Gly Glu Glu His Phe Glu Asp Tyr Gly Glu Gly  
 85 90 95  
 Ser Glu Ala Glu Leu Ser Pro Glu Thr Leu Cys Asn Gly Gln Leu Gly  
 100 105 110  
 Cys Ser Asp Pro Ala Phe Leu Thr Pro Ser Pro Thr Lys Arg Leu Ser  
 115 120 125  
 Ser Lys Lys Val Ala Arg Tyr Leu His Gln  
 130 135

<210> 198  
 <211> 100  
 <212> PRT  
 <213> Homo sapien

<400> 198  
 Met Gly Asp Val Lys Asn Phe Leu Tyr Ala Trp Cys Gly Lys Arg Lys  
 1 5 10 15  
 Met Thr Pro Ser Tyr Glu Ile Arg Ala Val Gly Asn Lys Asn Arg Gln  
 20 25 30  
 Lys Phe Met Cys Glu Val Gln Val Glu Gly Tyr Asn Tyr Thr Gly Met  
 35 40 45  
 Gly Asn Ser Thr Asn Lys Lys Asp Ala Gln Ser Asn Ala Ala Arg Asp  
 50 55 60  
 Phe Val Asn Tyr Leu Val Arg Ile Asn Glu Ile Lys Ser Glu Glu Val  
 65 70 75 80  
 Pro Ala Phe Gly Val Ala Ser Pro Pro Pro Leu Thr Asp Thr Pro Asp  
 85 90 95  
 Thr Thr Ala Asn  
 100

<210> 199  
 <211> 127  
 <212> PRT  
 <213> Homo sapien

<400> 199  
 Met Val Lys Glu Thr Thr Tyr Tyr Asp Val Leu Gly Val Lys Pro Asn

```

      1           5           10           15
Ala Thr Gln Glu Glu Leu Lys Lys Ala Tyr Arg Lys Leu Ala Leu Lys
      20           25           30
Tyr His Pro Asp Lys Asn Pro Asn Glu Gly Glu Lys Phe Lys Gln Ile
      35           40           45
Ser Gln Ala Tyr Glu Val Leu Ser Asp Ala Lys Lys Arg Glu Leu Tyr
      50           55           60
Asp Lys Gly Gly Glu Gln Ala Ile Lys Glu Gly Gly Ala Gly Gly Gly
65           70           75           80
Phe Gly Ser Pro Met Asp Ile Phe Asp Met Phe Phe Gly Gly Gly Gly
      85           90           95
Arg Met Gln Arg Glu Arg Arg Gly Lys Asn Val Val His Gln Leu Ser
      100          105          110
Val Thr Leu Glu Asp Leu Tyr Asn Gly Ala Thr Arg Lys Leu Ala
      115          120          125

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&lt;210&gt; 200

&lt;211&gt; 90

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 200

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Met Ala Cys Pro Leu Asp Gln Ala Ile Gly Leu Leu Val Ala Ile Phe
 1           5           10           15
His Lys Tyr Ser Gly Arg Glu Gly Asp Lys His Thr Leu Ser Lys Lys
      20           25           30
Glu Leu Lys Glu Leu Ile Gln Lys Glu Leu Thr Ile Gly Ser Lys Leu
      35           40           45
Gln Asp Ala Glu Ile Ala Arg Leu Met Glu Asp Leu Asp Arg Asn Lys
50           55           60
Asp Gln Glu Val Asn Phe Gln Glu Tyr Val Thr Phe Leu Gly Ala Leu
65           70           75           80
Ala Leu Ile Tyr Asn Glu Ala Leu Lys Gly
      85           90

```

&lt;210&gt; 201

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 201

```

Met Glu Thr Pro Ser Gln Arg Arg Ala Thr Arg Ser Gly Ala Gln Ala
 1           5           10           15
Ser Ser Thr Pro Leu Ser Pro Thr Arg Ile Thr Arg Leu Gln Glu Lys
      20           25           30
Glu Asp Leu Gln Glu Leu Asn Asp Arg Leu Ala Val Tyr Ile Asp Arg
      35           40           45
Val Arg Ser Leu Glu Thr Glu Asn Ala Gly Leu Arg Leu Arg Ile Thr
50           55           60
Glu Ser Glu Glu Val Val Ser Arg Glu Val Ser Gly Ile Lys Ala Ala
65           70           75           80
Tyr Glu Ala Glu Leu Gly Asp Ala Arg Lys Thr Leu Asp Ser Val Ala
      85           90           95
Lys Glu Arg Ala Arg Leu Gln Leu Glu Leu Ser Lys Val Arg Glu Glu

```

100 105 110  
 Phe Lys Glu Leu Lys Ala Arg Asn  
 115 120

<210> 202  
 <211> 177  
 <212> PRT  
 <213> Homo sapien

<400> 202  
 Met Ala Ala Gly Val Glu Ala Ala Ala Glu Val Ala Ala Thr Glu Ile  
 1 5 10 15  
 Lys Met Glu Glu Glu Ser Gly Ala Pro Gly Val Pro Ser Gly Asn Gly  
 20 25 30  
 Ala Pro Gly Pro Lys Gly Glu Gly Glu Arg Pro Ala Gln Asn Glu Lys  
 35 40 45  
 Arg Lys Glu Lys Asn Ile Lys Arg Gly Gly Asn Arg Phe Glu Pro Tyr  
 50 55 60  
 Ala Asn Pro Thr Lys Arg Tyr Arg Ala Phe Ile Thr Asn Ile Pro Phe  
 65 70 75 80  
 Asp Val Lys Trp Gln Ser Leu Lys Asp Leu Val Lys Glu Lys Val Gly  
 85 90 95  
 Glu Val Thr Tyr Val Glu Leu Leu Met Asp Ala Glu Gly Lys Ser Arg  
 100 105 110  
 Gly Cys Ala Val Val Glu Phe Lys Met Glu Glu Ser Met Lys Lys Ala  
 115 120 125  
 Ala Glu Val Leu Asn Lys His Ser Leu Ser Gly Arg Pro Leu Lys Val  
 130 135 140  
 Lys Glu Asp Pro Asp Gly Glu His Ala Arg Arg Ala Met Gln Lys Ala  
 145 150 155 160  
 Gly Arg Leu Gly Ser Thr Val Phe Val Ala Asn Leu Asp Tyr Lys Val  
 165 170 175  
 Gly

<210> 203  
 <211> 164  
 <212> PRT  
 <213> Homo sapien

<400> 203  
 Met Arg Leu Ala Val Gly Ala Leu Leu Val Cys Ala Val Leu Gly Leu  
 1 5 10 15  
 Cys Leu Ala Val Pro Asp Lys Thr Val Arg Trp Cys Ala Val Ser Glu  
 20 25 30  
 His Glu Ala Thr Lys Cys Gln Ser Phe Arg Asp His Met Lys Ser Val  
 35 40 45  
 Ile Pro Ser Asp Gly Pro Ser Val Ala Cys Val Lys Lys Ala Ser Tyr  
 50 55 60  
 Leu Asp Cys Ile Arg Ala Ile Ala Ala Asn Glu Ala Asp Ala Val Thr  
 65 70 75 80  
 Leu Asp Ala Gly Leu Val Tyr Asp Ala Tyr Leu Ala Pro Asn Asn Leu  
 85 90 95  
 Lys Pro Val Val Ala Glu Phe Tyr Gly Ser Lys Glu Asp Pro Gln Thr

			100					105					110				
Phe	Tyr	Tyr	Ala	Val	Ala	Val	Val	Lys	Lys	Asp	Ser	Gly	Phe	Gln	Met		
			115					120					125				
Asn	Gln	Leu	Arg	Gly	Lys	Lys	Ser	Cys	His	Thr	Gly	Leu	Gly	Arg	Ser		
			130					135					140				
Ala	Gly	Trp	Asn	Ile	Pro	Ile	Gly	Leu	Leu	Tyr	Cys	Asp	Leu	Pro	Glu		
145					150					155					160		
Pro	Arg	Lys	Pro														

<210> 204  
 <211> 241  
 <212> PRT  
 <213> Homo sapien

Met	Ser	Gly	Glu	Ser	Ala	Arg	Ser	Leu	Gly	Lys	Gly	Ser	Ala	Pro	Pro		
1				5					10					15			
Gly	Pro	Val	Pro	Glu	Gly	Ser	Ile	Arg	Ile	Tyr	Ser	Met	Arg	Phe	Cys		
			20					25					30				
Pro	Phe	Ala	Glu	Arg	Thr	Arg	Leu	Val	Leu	Lys	Ala	Lys	Gly	Ile	Arg		
		35					40					45					
His	Glu	Val	Ile	Asn	Ile	Asn	Leu	Lys	Asn	Lys	Pro	Glu	Trp	Phe	Phe		
					55						60						
Lys	Lys	Asn	Pro	Phe	Gly	Leu	Val	Pro	Val	Leu	Glu	Asn	Ser	Gln	Gly		
65					70					75				80			
Gln	Leu	Ile	Tyr	Glu	Ser	Ala	Ile	Thr	Cys	Glu	Tyr	Leu	Asp	Glu	Ala		
				85					90					95			
Tyr	Pro	Gly	Lys	Lys	Leu	Leu	Pro	Asp	Asp	Pro	Tyr	Glu	Lys	Ala	Cys		
			100					105						110			
Gln	Lys	Met	Ile	Leu	Glu	Leu	Phe	Ser	Lys	Val	Pro	Ser	Leu	Val	Gly		
		115					120					125					
Ser	Phe	Ile	Arg	Ser	Gln	Asn	Lys	Glu	Asp	Tyr	Asp	Gly	Leu	Lys	Glu		
		130				135					140						
Glu	Phe	Arg	Lys	Glu	Phe	Thr	Lys	Leu	Glu	Glu	Val	Leu	Thr	Asn	Lys		
145					150					155					160		
Lys	Thr	Thr	Phe	Phe	Gly	Gly	Asn	Ser	Ile	Ser	Met	Ile	Asp	Tyr	Leu		
				165					170					175			
Ile	Trp	Pro	Trp	Phe	Glu	Arg	Leu	Glu	Ala	Met	Lys	Leu	Asn	Glu	Cys		
		180						185					190				
Val	Asp	His	Thr	Pro	Lys	Leu	Lys	Leu	Trp	Met	Ala	Ala	Met	Lys	Glu		
		195					200					205					
Asp	Pro	Thr	Val	Ser	Ala	Leu	Leu	Thr	Ser	Glu	Lys	Asp	Trp	Gln	Gly		
		210				215					220						
Phe	Leu	Glu	Leu	Tyr	Leu	Gln	Asn	Ser	Pro	Glu	Ala	Cys	Asp	Tyr	Gly		
225					230					235					240		
Leu																	

<210> 205  
 <211> 160  
 <212> PRT  
 <213> Homo sapien

<400> 205  
 Met Gln Ile Phe Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu  
 1 5 10 15  
 Val Glu Pro Ser Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp  
 20 25 30  
 Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys  
 35 40 45  
 Gln Leu Glu Asp Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu  
 50 55 60  
 Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly Met Gln Ile Phe  
 65 70 75 80  
 Val Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu Val Glu Pro Ser  
 85 90 95  
 Asp Thr Ile Glu Asn Val Lys Ala Lys Ile Gln Asp Lys Glu Gly Ile  
 100 105 110  
 Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys Gln Leu Glu Asp  
 115 120 125  
 Gly Arg Thr Leu Ser Asp Tyr Asn Ile Gln Lys Glu Ser Thr Leu His  
 130 135 140  
 Leu Val Leu Arg Leu Arg Gly Gly Met Gln Ile Phe Val Lys Thr Leu  
 145 150 155 160

<210> 206

<211> 197

<212> PRT

<213> Homo sapien

<400> 206  
 Thr Ser Pro Ser Glu Ala Cys Ala Pro Leu Leu Ile Ser Leu Ser Thr  
 1 5 10 15  
 Leu Ile Tyr Asn Gly Ala Leu Pro Cys Gln Cys Asn Pro Gln Gly Ser  
 20 25 30  
 Leu Ser Ser Glu Cys Asn Pro His Gly Gly Gln Cys Leu Cys Lys Pro  
 35 40 45  
 Gly Val Val Gly Arg Arg Cys Asp Leu Cys Ala Pro Gly Tyr Tyr Gly  
 50 55 60  
 Phe Gly Pro Thr Gly Cys Gln Gly Ala Cys Leu Gly Cys Arg Asp His  
 65 70 75 80  
 Thr Gly Gly Glu His Cys Glu Arg Cys Ile Ala Gly Phe His Gly Asp  
 85 90 95  
 Pro Arg Leu Pro Tyr Gly Gly Gln Cys Arg Pro Cys Pro Cys Pro Glu  
 100 105 110  
 Gly Pro Gly Ser Gln Arg His Phe Ala Thr Ser Cys His Gln Asp Glu  
 115 120 125  
 Tyr Ser Gln Gln Ile Val Cys His Cys Arg Ala Gly Tyr Thr Gly Leu  
 130 135 140  
 Arg Cys Glu Ala Cys Ala Pro Gly His Phe Gly Asp Pro Ser Arg Pro  
 145 150 155 160  
 Gly Gly Arg Cys Gln Leu Cys Glu Cys Ser Gly Asn Ile Asp Pro Met  
 165 170 175  
 Asp Pro Asp Ala Cys Asp Pro His Thr Gly Gln Cys Leu Arg Cys Leu  
 180 185 190  
 His His Thr Glu Gly  
 195

<210> 207  
 <211> 175  
 <212> PRT  
 <213> Homo sapien

<400> 207  
 Ile Ile Arg Gln Gln Gly Leu Ala Ser Tyr Asp Tyr Val Arg Arg Arg  
 1 5 10 15  
 Leu Thr Ala Glu Asp Leu Phe Glu Ala Arg Ile Ile Ser Leu Glu Thr  
 20 25 30  
 Tyr Asn Leu Leu Arg Glu Gly Thr Arg Ser Leu Arg Glu Ala Leu Glu  
 35 40 45  
 Ala Glu Ser Ala Trp Cys Tyr Leu Tyr Gly Thr Gly Ser Val Ala Gly  
 50 55 60  
 Val Tyr Leu Pro Gly Ser Arg Gln Thr Leu Ser Ile Tyr Gln Ala Leu  
 65 70 75 80  
 Lys Lys Gly Leu Leu Ser Ala Glu Val Ala Arg Leu Leu Leu Glu Ala  
 85 90 95  
 Gln Ala Ala Thr Gly Phe Leu Leu Asp Pro Val Lys Gly Glu Arg Leu  
 100 105 110  
 Thr Val Asp Glu Ala Val Arg Lys Gly Leu Val Gly Pro Glu Leu His  
 115 120 125  
 Asp Arg Leu Leu Ser Ala Glu Arg Ala Val Thr Gly Tyr Arg Asp Pro  
 130 135 140  
 Tyr Thr Glu Gln Thr Ile Ser Leu Phe Gln Ala Met Lys Lys Glu Leu  
 145 150 155 160  
 Ile Pro Thr Glu Glu Ala Leu Arg Leu Trp Met Pro Ser Trp Pro  
 165 170 175

<210> 208  
 <211> 177  
 <212> PRT  
 <213> Homo sapien

<400> 208  
 Met Ala Ala Gly Val Glu Ala Ala Ala Glu Val Ala Ala Thr Glu Ile  
 1 5 10 15  
 Lys Met Glu Glu Glu Ser Gly Ala Pro Gly Val Pro Ser Gly Asn Gly  
 20 25 30  
 Ala Pro Gly Pro Lys Gly Glu Gly Glu Arg Pro Ala Gln Asn Glu Lys  
 35 40 45  
 Arg Lys Glu Lys Asn Ile Lys Arg Gly Gly Asn Arg Phe Glu Pro Tyr  
 50 55 60  
 Ala Asn Pro Thr Lys Arg Tyr Arg Ala Phe Ile Thr Asn Ile Pro Phe  
 65 70 75 80  
 Asp Val Lys Trp Gln Ser Leu Lys Asp Leu Val Lys Glu Lys Val Gly  
 85 90 95  
 Glu Val Thr Tyr Val Glu Leu Leu Met Asp Ala Glu Gly Lys Ser Arg  
 100 105 110  
 Gly Cys Ala Val Val Glu Phe Lys Met Glu Glu Ser Met Lys Lys Ala  
 115 120 125  
 Ala Glu Val Leu Asn Lys His Ser Leu Ser Gly Arg Pro Leu Lys Val  
 130 135 140



Lys Glu Asp Pro Asp Gly Glu His Ala Arg Arg Ala Met Gln Lys Val  
 145 150 155 160  
 Met Ala Thr Thr Gly Gly Met Gly Met Gly Pro Gly Gly Pro Gly Met  
 165 170 175  
 Ile

<210> 209  
 <211> 196  
 <212> PRT  
 <213> Homo sapien

<400> 209  
 Asp Leu Gln Asp Met Phe Ile Val His Thr Ile Glu Glu Ile Glu Gly  
 1 5 10 15  
 Leu Ile Ser Ala His Asp Gln Phe Lys Ser Thr Leu Pro Asp Ala Asp  
 20 25 30  
 Arg Glu Arg Glu Ala Ile Leu Ala Ile His Lys Glu Ala Gln Arg Ile  
 35 40 45  
 Ala Glu Ser Asn His Ile Lys Leu Ser Gly Ser Asn Pro Tyr Thr Thr  
 50 55 60  
 Val Thr Pro Gln Ile Ile Asn Ser Lys Trp Glu Lys Val Gln Gln Leu  
 65 70 75 80  
 Val Pro Lys Arg Asp His Ala Leu Leu Glu Glu Gln Ser Lys Gln Gln  
 85 90 95  
 Ser Asn Glu His Leu Arg Arg Gln Phe Ala Ser Gln Ala Asn Val Val  
 100 105 110  
 Gly Pro Trp Ile Gln Thr Lys Met Glu Glu Ile Gly Arg Ile Ser Ile  
 115 120 125  
 Glu Met Asn Gly Thr Leu Glu Asp Gln Leu Ser His Leu Lys Gln Tyr  
 130 135 140  
 Glu Arg Ser Ile Val Asp Tyr Lys Pro Asn Leu Asp Leu Leu Glu Gln  
 145 150 155 160  
 Gln His Gln Leu Ile Gln Glu Ala Leu Ile Phe Asp Asn Lys His Thr  
 165 170 175  
 Asn Tyr Thr Met Glu His Ile Arg Val Gly Trp Glu Gln Leu Leu Thr  
 180 185 190  
 Thr Ile Ala Arg  
 195

<210> 210  
 <211> 156  
 <212> PRT  
 <213> Homo sapien

<400> 210  
 Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly Lys Glu  
 1 5 10 15  
 Val Leu Leu Leu Ala His Asn Leu Pro Gln Asn Arg Ile Gly Tyr Ser  
 20 25 30  
 Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Ser Leu Ile Val Gly Tyr  
 35 40 45  
 Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg  
 50 55 60

Glu Thr Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Val Thr Gln  
 65 70 75 80  
 Asn Asp Thr Gly Phe Tyr Thr Leu Gln Val Ile Lys Ser Asp Leu Val  
 85 90 95  
 Asn Glu Glu Ala Thr Gly Gln Phe His Val Tyr Pro Glu Leu Pro Lys  
 100 105 110  
 Pro Ser Ile Ser Ser Asn Asn Ser Asn Pro Val Glu Asp Lys Asp Ala  
 115 120 125  
 Val Ala Phe Thr Cys Glu Pro Glu Val Gln Asn Thr Thr Tyr Leu Trp  
 130 135 140  
 Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Lys  
 145 150 155

<210> 211  
 <211> 92  
 <212> PRT  
 <213> Homo sapien

<400> 211  
 Met Glu Ser Pro Ser Ala Pro Pro His Arg Trp Cys Ile Pro Trp Gln  
 1 5 10 15  
 Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr  
 20 25 30  
 Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly  
 35 40 45  
 Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly  
 50 55 60  
 Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile  
 65 70 75 80  
 Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly  
 85 90

<210> 212  
 <211> 142  
 <212> PRT  
 <213> Homo sapien

<400> 212  
 Glu Lys Gln Lys Asn Lys Glu Phe Ser Gln Thr Leu Glu Asn Glu Lys  
 1 5 10 15  
 Asn Thr Leu Leu Ser Gln Ile Ser Thr Lys Asp Gly Glu Leu Lys Met  
 20 25 30  
 Leu Gln Glu Glu Val Thr Lys Met Asn Leu Leu Asn Gln Ile Gln  
 35 40 45  
 Glu Glu Leu Ser Arg Val Thr Lys Leu Lys Glu Thr Ala Glu Glu Glu  
 50 55 60  
 Lys Asp Asp Leu Glu Glu Arg Leu Met Asn Gln Leu Ala Glu Leu Asn  
 65 70 75 80  
 Gly Ser Ile Gly Asn Tyr Cys Gln Asp Val Thr Asp Ala Gln Ile Lys  
 85 90 95  
 Asn Glu Leu Leu Glu Ser Glu Met Lys Asn Leu Lys Lys Cys Val Ser  
 100 105 110  
 Glu Leu Glu Glu Glu Lys Gln Gln Leu Val Lys Glu Lys Thr Lys Val  
 115 120 125

Glu Ser Glu Ile Arg Lys Glu Tyr Leu Glu Lys Ile Gln Gly  
130 135 140

<210> 213  
<211> 142  
<212> PRT  
<213> Homo sapien

<400> 213  
Gly Gly Tyr Gly Gly Gly Tyr Gly Gly Val Leu Thr Ala Ser Asp Gly  
1 5 10 15  
Leu Leu Ala Gly Asn Glu Lys Leu Thr Met Gln Asn Leu Asn Asp Arg  
20 25 30  
Leu Ala Ser Tyr Leu Asp Lys Val Arg Ala Leu Glu Ala Ala Asn Gly  
35 40 45  
Glu Leu Glu Val Lys Ile Arg Asp Trp Tyr Gln Lys Gln Gly Pro Gly  
50 55 60  
Pro Ser Arg Asp Tyr Ser His Tyr Tyr Thr Thr Ile Gln Asp Leu Arg  
65 70 75 80  
Asp Lys Ile Leu Gly Ala Thr Ile Glu Asn Ser Arg Ile Val Leu Gln  
85 90 95  
Ile Asp Asn Ala Arg Leu Ala Ala Asp Asp Phe Arg Thr Lys Phe Glu  
100 105 110  
Thr Glu Gln Ala Leu Arg Met Ser Val Glu Ala Asp Ile Asn Gly Leu  
115 120 125  
Arg Arg Val Leu Asp Glu Leu Thr Leu Ala Arg Thr Asp Leu  
130 135 140

<210> 214  
<211> 129  
<212> PRT  
<213> Homo sapien

<400> 214  
Val Met Arg Val Asp Phe Asn Val Pro Met Lys Asn Asn Gln Ile Thr  
1 5 10 15  
Asn Asn Gln Arg Ile Lys Ala Ala Val Pro Ser Ile Lys Phe Cys Leu  
20 25 30  
Asp Asn Gly Ala Lys Ser Val Val Leu Met Ser His Leu Gly Arg Pro  
35 40 45  
Asp Gly Val Pro Met Pro Asp Lys Tyr Ser Leu Glu Pro Val Ala Val  
50 55 60  
Glu Leu Arg Ser Leu Leu Gly Lys Asp Val Leu Phe Leu Lys Asp Cys  
65 70 75 80  
Val Gly Pro Glu Val Glu Lys Ala Cys Ala Asn Pro Ala Ala Gly Ser  
85 90 95  
Val Ile Leu Leu Glu Asn Leu Arg Phe His Val Glu Glu Glu Gly Lys  
100 105 110  
Gly Lys Asp Ala Ser Gly Asn Lys Val Lys Ala Glu Pro Ala Lys Ile  
115 120 125  
Glu

<210> 215

<211> 148  
 <212> PRT  
 <213> Homo sapien

<400> 215  
 Met Ala Thr Leu Lys Glu Lys Leu Ile Ala Pro Val Ala Glu Glu Glu  
 1 5 10 15  
 Ala Thr Val Pro Asn Asn Lys Ile Thr Val Val Gly Val Gly Gln Val  
 20 25 30  
 Gly Met Ala Cys Ala Ile Ser Ile Leu Gly Lys Ser Leu Ala Asp Glu  
 35 40 45  
 Leu Ala Leu Val Asp Val Leu Glu Asp Lys Leu Lys Gly Glu Met Met  
 50 55 60  
 Asp Leu Gln His Gly Ser Leu Phe Leu Gln Thr Pro Lys Ile Val Ala  
 65 70 75 80  
 Asp Lys Asp Tyr Ser Val Thr Ala Asn Ser Lys Ile Val Val Val Thr  
 85 90 95  
 Ala Gly Val Arg Gln Gln Glu Gly Glu Ser Arg Leu Asn Leu Val Gln  
 100 105 110  
 Arg Asn Val Asn Val Phe Lys Phe Ile Ile Pro Gln Ile Val Lys Tyr  
 115 120 125  
 Ser Pro Asp Cys Ile Ile Ile Val Val Ser Asn Pro Val Asp Ile Leu  
 130 135 140  
 Thr Tyr Val Thr  
 145

<210> 216  
 <211> 527  
 <212> PRT  
 <213> Homo sapien

<400> 216  
 Gln Arg Ala Pro Gly Ile Glu Glu Lys Ala Ala Glu Asn Gly Ala Leu  
 1 5 10 15  
 Gly Ser Pro Glu Arg Glu Glu Lys Val Leu Glu Asn Gly Glu Leu Thr  
 20 25 30  
 Pro Pro Arg Arg Glu Glu Lys Ala Leu Glu Asn Gly Glu Leu Arg Ser  
 35 40 45  
 Pro Glu Ala Gly Glu Lys Val Leu Val Asn Gly Gly Leu Thr Pro Pro  
 50 55 60  
 Lys Ser Glu Asp Lys Val Ser Glu Asn Gly Gly Leu Arg Phe Pro Arg  
 65 70 75 80  
 Asn Thr Glu Arg Pro Glu Thr Gly Pro Trp Arg Ala Pro Gly Pro  
 85 90 95  
 Trp Glu Lys Thr Pro Glu Ser Trp Gly Pro Ala Pro Thr Ile Gly Glu  
 100 105 110  
 Pro Ala Pro Glu Thr Ser Leu Glu Arg Ala Pro Ala Pro Ser Ala Val  
 115 120 125  
 Val Ser Ser Arg Asn Gly Gly Glu Thr Ala Pro Gly Pro Leu Gly Pro  
 130 135 140  
 Ala Pro Lys Asn Gly Thr Leu Glu Pro Gly Thr Glu Arg Arg Ala Pro  
 145 150 155 160  
 Glu Thr Gly Gly Ala Pro Arg Ala Pro Gly Ala Gly Arg Leu Asp Leu  
 165 170 175

Gly Ser Gly Gly Arg Ala Pro Val Gly Thr Gly Thr Ala Pro Gly Gly  
 180 185 190  
 Gly Pro Gly Ser Gly Val Asp Ala Lys Ala Gly Trp Val Asp Asn Thr  
 195 200 205  
 Arg Pro Gln Pro Pro Pro Pro Pro Leu Pro Pro Pro Pro Glu Ala Gln  
 210 215 220  
 Pro Arg Arg Leu Glu Pro Ala Pro Pro Arg Ala Arg Pro Glu Val Ala  
 225 230 235 240  
 Pro Glu Gly Glu Pro Gly Ala Pro Asp Ser Arg Ala Gly Gly Asp Thr  
 245 250 255  
 Ala Leu Ser Gly Asp Gly Asp Pro Pro Lys Pro Glu Arg Lys Gly Pro  
 260 265 270  
 Glu Met Pro Arg Leu Phe Leu Asp Leu Gly Pro Pro Gln Gly Asn Ser  
 275 280 285  
 Glu Gln Ile Lys Ala Arg Leu Ser Arg Leu Ser Leu Ala Leu Pro Pro  
 290 295 300  
 Leu Thr Leu Thr Pro Phe Pro Gly Pro Gly Pro Arg Arg Pro Pro Trp  
 305 310 315 320  
 Glu Gly Ala Asp Ala Gly Ala Ala Gly Gly Glu Ala Gly Gly Ala Gly  
 325 330 335  
 Ala Pro Gly Pro Ala Glu Glu Asp Gly Glu Asp Glu Asp Glu Asp Glu  
 340 345 350  
 Glu Glu Asp Glu Glu Ala Ala Ala Pro Gly Ala Ala Ala Gly Pro Arg  
 355 360 365  
 Gly Pro Gly Arg Ala Arg Ala Ala Pro Val Pro Val Val Val Ser Ser  
 370 375 380  
 Ala Asp Ala Asp Ala Ala Arg Pro Leu Arg Gly Leu Leu Lys Ser Pro  
 385 390 395 400  
 Arg Gly Ala Asp Glu Pro Glu Asp Ser Glu Leu Glu Arg Lys Arg Lys  
 405 410 415  
 Met Val Ser Phe His Gly Asp Val Thr Val Tyr Leu Phe Asp Gln Glu  
 420 425 430  
 Thr Pro Thr Asn Glu Leu Ser Val Gln Ala Pro Pro Glu Gly Asp Thr  
 435 440 445  
 Asp Pro Ser Thr Pro Pro Ala Pro Pro Thr Pro Pro His Pro Ala Thr  
 450 455 460  
 Pro Gly Asp Gly Phe Pro Ser Asn Asp Ser Gly Phe Gly Gly Ser Phe  
 465 470 475 480  
 Glu Trp Ala Glu Asp Phe Pro Leu Leu Pro Pro Pro Gly Pro Pro Leu  
 485 490 495  
 Cys Phe Ser Arg Phe Ser Val Ser Pro Ala Leu Glu Thr Pro Gly Pro  
 500 505 510  
 Pro Ala Arg Ala Pro Asp Ala Arg Pro Ala Gly Pro Val Glu Asn  
 515 520 525

&lt;210&gt; 217

&lt;211&gt; 466

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 217

gaatggtgcc	tgtcctgctg	tctctgctgc	tgtttctggg	tctgtctgtc	ccccaggaga	60
accaagatgg	tcgttactct	ctgacctata	tctacactgg	gctgtccaag	catgttgaag	120
acgtccccgc	gtttcaggcc	cttggctcac	tcaatgacct	ccagttcttt	agatacaaca	180

gtaaagacag	gaagtctcag	cccatgggac	tctggagaca	ggtggaagga	atggaggatt	240
ggaagcagga	cagccaactt	cagaaggcca	gggaggacat	ctttatggag	accctgaaag	300
acatcgtgga	gtattacaac	gacagtaacg	ggtctcacgt	attgcaggga	aggtttgggt	360
gtgagatcga	gaataacaga	agcagcggag	cattctggaa	atattactat	gatggaaagg	420
actacattga	attcaacaaa	gaaatcccag	cctgggtccc	cttcga		466

&lt;210&gt; 218

&lt;211&gt; 381

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 218

gagtttcctt	cgcaagttca	tgtggggtac	cttcccaggc	tgccctggctg	accagctggt	60
tttaaagcgc	cggggttaacc	agttggagat	ctgtgccgtg	gtcctgaggc	agttgtctcc	120
acacaagtac	tacttcctcg	tgggctacag	tgaaactttg	ctgtcctact	ttacaaaatg	180
tcctgtgcga	ctccacctcc	aaactgtgcc	ctcaaagggt	gtgtataagt	acctctagaa	240
caatccctt	ttttccatca	agctgtagcc	tgccagagaat	ggaaacgtgg	gaaaggaatg	300
gtatgtgggg	gaaatgcac	ccctcagagg	actgaggcat	agtctctcat	ctgctattga	360
ataaagacct	tctatcttgt	a				381

&lt;210&gt; 219

&lt;211&gt; 1293

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 219

gaggggaggc	gcatggcggg	gatggcgctg	gcgcgggcct	ggaagcagat	gtcctggttc	60
tactaccagt	acctgctggt	cacggcgctc	tacatgctgg	agccctggga	gcggacgggtg	120
ttcaattcca	tgctggtttc	cattgtgggg	atggcaactat	acacaggata	cgtcttcatg	180
ccccagcaca	tcatggcgat	attgcactac	tttgaaatcg	tacaatgacc	aagatgcgac	240
caggatcaga	ggttccttg	ggaagaccca	ccctacgaag	ttggaatgag	accatcagat	300
gtgataagaa	actcttctag	atgtcaacat	aaccaacctt	ataaagacta	aaattcatga	360
gtagaacagg	aaaatcatcc	tgactcatgt	gttgtgttct	ttatttttaa	ttttcaaaga	420
ggctcttgta	tagcagtttt	tgtctatttt	aacattgtag	tcattttgtac	tttgatatca	480
gtattttctt	aacctttgtg	actgtttcaa	tattaccccc	gtgaaagctt	ttcttaatgt	540
aactttgagt	acattttta	tgccctctat	ttttaaaact	caaaatcatt	agttgggctt	600
tactgttctt	gctattgtat	ggcatataca	tctgcctgga	tatatttcta	ctcttgacca	660
aagttttgta	aagaacaata	taagatttctg	ggtaggggta	tggggaggga	agatatttta	720
ttgagaacta	cttaacaaaa	gatttatctg	taagcttgaa	ctcaggagta	cagtttttagc	780
tatctagact	ctaacagctt	ttgctttaaa	attattaaag	tgtttcttaa	tgaaaaagaa	840
aagatcttgc	taaagttaaa	ataaggaaca	tttcaccttt	taaatattta	attcttatgt	900
ggacttattt	ccagaaaact	ttggtgataa	ttcttgagac	aaaagggtgg	taagtagcat	960
tattatgtaa	tgcttatata	ccatagagtt	tttaatagaa	gagaaatcca	tttcctccga	1020
gggtcactat	taacaatgta	cttccttaaa	tttagtttaa	tgattgtaat	gggtgctgca	1080
tttgacacatt	gcattaagtt	atgatgagac	gaattgttgt	taaaaattat	agcaaaaaga	1140
aatgtaaaact	tggttaaaa	cctttcactc	tttgtattgt	tttttttaag	gtttttatc	1200
cttaaatgta	aaatgactac	ctaatttttt	gatgtaaata	cattaaattc	aaagagaaaa	1260
aaaatcaaaa	aaaaaaaaaa	aaaaaaactc	gag			1293

&lt;210&gt; 220

&lt;211&gt; 983

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 220

caggttattc	tgatcctgcc	gcctgtcttc	cctgtaagag	tggagcctcg	aggtgtacct	60
taaagtgacc	ggaatgttag	agatgcaatt	tgcagagctg	gggcaaggaa	gggtccttg	120
tactgtagt	tactttcctt	gcagtggcca	aatgcccaat	aagaaggaa	acatgaccac	180
tgctgtgggg	agtcagcagg	tgctgatgc	agctggccac	actccatcca	cggccatgac	240
ataaaacaga	caagaagtaa	ggctggactg	taacacctca	aggcctgctc	cagtgaccca	300
ctttcttcag	agaggctcta	ccacacacac	aaccaccttc	caaatttaca	ctcagatcac	360
tacaccatgt	ctcccaagtt	aaaacatgta	tccacctaga	ctttaaatgt	gctttgtaac	420
tgttgatggc	actgtacaga	gggccaaagt	atttcccatc	agatagcatt	tttctgaacc	480
catgcctctt	gggacgagat	cacaggactt	gacccatcat	caaataggac	caggtgacct	540
acagagacat	cacaatgatg	gcttccctaca	gtcaagtcca	tttccaataa	tgctctcatc	600
taagagaacc	catgaacctt	atttgaatcc	tggttcaaac	aaaaacctta	aattatttat	660
gagacaatta	taaacttgat	agattttgat	gtgtgaagg	atttatgaat	atttttagtc	720
agtgatggta	tactgttaag	gaaaagggtt	atatttttag	gacaaaggct	gaaacattta	780
tggacagagt	gatatgatat	ctgggatttg	ttttaggatg	aagtgggagg	gaggaaatga	840
atggaaatag	tggtgaaaca	gtattggcca	cgagtcagct	attgtgtgct	aagacgctcc	900
tcacaccagt	ctactctgta	tgtgtttgaa	tatctctgta	ataaacttaa	caaggaaaaa	960
aaaaaaaaa	aaaaaaactc	gag				983

&lt;210&gt; 221

&lt;211&gt; 373

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 221

cattttatgg	gttaattttt	tattaaatag	caataagata	cttttataac	tcaataaaat	60
tattcaatga	tacattcggg	aaataaatgt	ataaaatatg	aaaaagtact	aaaaagcatt	120
tttcagtact	tttaggtaag	attaatccaa	ctaaacacta	gcatatgtta	tacagtaata	180
ataaggggaa	aatacaataa	tggttgagaaa	gcaaactcaa	agcatagatc	aatgaaaaaa	240
ttgagaaatg	gacataaatg	atttagtatt	tttaaagaga	gtgaaaaatc	attattttat	300
gcttttgtgt	agcgttagat	gaattaaata	acatatgcac	atatagcttt	gcgatacaaa	360
tttccagacc	ata					373

&lt;210&gt; 222

&lt;211&gt; 544

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 222

cagagatgct	gctgctacaa	aggatcggtg	taagcagtta	accagggaaa	tgatgacaga	60
gaaagaaaga	agcaatgtgg	ttataacaag	gatgaaagat	cgaattggaa	cattagaaaa	120
ggaacataat	gtatttcaaa	acaaaataca	tgctcagttat	caagagactc	aacagatgca	180
gatgaagttt	cagcaagttc	gtgagcagat	ggaggcagag	atagctcact	tgaagcagga	240
aaatggtata	ctgagagatg	cagtcagcaa	cactacaaat	caactggaaa	gcaagcagtc	300
tgcagaacta	aataaactac	gccaggatta	tgctaggttg	gtgaatgagc	tgactgagaa	360
aacaggaaag	ctacagcaag	aggaagtcca	aaagaagaat	gctgagcaag	cagctactca	420
gttgaagggt	caactacaag	aagctgagag	aagggtgggaa	gaagttcaga	gctacatcag	480
gaagagaaca	gcggaacatg	aggcagcaca	gctagattta	cagagtaa	ttgtggccaa	540
agaa						544

&lt;210&gt; 223

&lt;211&gt; 316

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 223

gaggcaagg	atatgcttta	gtgcctatta	tagttaattc	ttcaactcca	aagtctaaaa	60
cagttgaatc	tgtgaagga	aaatctgaag	aagtaaatga	aacattagtt	ataccactg	120
aggaagcaga	aatggaagaa	agtggacgaa	gtgcaactcc	tgtaactgt	gaacagcctg	180
atatcttgg	ttcttctaca	ccaataaatg	aaggacagac	tgtgttagac	aaggtggctg	240
agcagtgtga	acctgctgaa	agtcagccag	aagcacttct	gagaggaaga	tgtttgcaag	300
gtaactctaa	cagttg					316

&lt;210&gt; 224

&lt;211&gt; 1583

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 224

cagaccacgt	ctgccctcgc	cgctctagcc	ctgcgcccc	gcccggccgc	ggcacctccg	60
cctcgccgcc	gctaggtcgg	ccggtccgc	ccggtcgcg	cctaggatga	atatcatgga	120
cttcaacgtg	aagaagctgg	cgccgacgc	aggcaccttc	ctcagtcgcg	ccgtgcagtt	180
cacagaagaa	aagcttggcc	aggtgagaa	gacagaattg	gatgctcact	tagagaacct	240
ccttagcaaa	gctgaatgta	ccaaaatatg	gacagaaaaa	ataatgaaac	aaactgaagt	300
gttattgcag	ccaaatccaa	atgccaggat	agaagaattt	gtttatgaga	aactggatag	360
aaaagctcca	agtcgtataa	acaaccaga	acttttgga	caatatatga	ttgatgcagg	420
gactgagttt	ggcccaggaa	cagcttatgg	taatgccctt	attaaatgtg	gagaaaccca	480
aaaaagaatt	ggaacagcag	acagagaact	gattcaaacg	tcagccttaa	attttcttac	540
tcctttaaga	aactttatag	aaggagatta	caaaacaatt	gctaaagaaa	ggaaactatt	600
gcaaaaataag	agactggatt	tggatgctgc	aaaaacgaga	ctaaaaaagg	caaaagctgc	660
agaaactaga	aattcatctg	aacaggaatt	agaataaact	caaagtgaat	ttgatcgtca	720
agcagagatt	accagacttc	tgttagagg	aatcagcagt	acacatgcc	atcaccttcg	780
ctgtctgaat	gactttgtag	aagcccagat	gacttactat	gcacagtgtt	accagtatat	840
gttggacctc	cagaaacaac	tgggaagttt	tccatccaat	tatcttagta	acaacaatca	900
gacttctgtg	acacctgtac	catcagtttt	accaaatgcg	attggttctt	ctgccatggc	960
ttcaacaagt	ggcctagtaa	tcacctctcc	ttccaacctc	agtgacctta	aggagtgtag	1020
tggcagcaga	aaggccagg	ttctctatga	ttatgatgca	gcaaacagta	ctgaattatc	1080
acttctggca	gatgaggtga	tcaactgtgt	cagtgttgtt	ggaatggatt	cagactggct	1140
aatgggggaa	aggggaaacc	agaagggcaa	ggtgccaat	acctacttag	aactgctcaa	1200
ttaagtaggt	ggactatgga	aaggttgccc	atcatgactt	tgtattttata	tacaattaac	1260
tctaaataaa	gcaggttaag	tatcttccat	gttaatgtgt	taagagactg	aaaataccag	1320
ccatcagaaa	ctggcctttt	tgccaataaa	gttgcagtgt	aaatatttca	ttacagaatt	1380
tatgttagag	ctttcatgcc	aagaatgttt	tcttacaaaa	ttctcttttt	attgaggttt	1440
cactaataag	cagcttctac	ttttgagcct	caacttaaa	cagaactgtt	ttttactgga	1500
tttttcatta	acagcaagct	ttttttttta	tgtaaaataa	atctattgtg	aattgaaaaa	1560
aaaaaaaaa	aaaaaaactc	gag				1583

&lt;210&gt; 225

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 225

gaacaacatc	atcttgaatc	actagataga	ctcttgacgg	aaagcaaagg	ggaaatgaaa	60
aaggaaaata	tgaagaaaga	tgaagcttta	aaagcattac	agaaccaagt	atctgaagaa	120
acaatcaagg	ttaggcaact	agattcagca	ttggaaattt	gtaaggaaga	acttgtcttg	180
catttgaatc	aattggaagg	aaataaggaa	aagtttgaaa	aacagttaaa	gaagaaatct	240
gaagaggtat	attgtttaca	gaaagagcta	aagataaaaa	atcacagtct	tcaagagact	300



tctgagcaaa	acgttattct	acagcatact	cttcagcaac	agcagcaa	gttacaacaa	360
gagacaatta	gaaatggaga	gctagaagat	actcaaacta	aacttgaaaa	acaggtgtca	420
aaactggaac	aagaacttca	aaaacaaagg	gaaagttcag	ctgaaaagtt	gagaaaaatg	480
gaggagaaat	g					491

&lt;210&gt; 226

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 226

cagccgcacg	ccgcggagca	ggggctcgga	ggtcccgga	ttacggtgct	cgagcacgct	60
ggtgggaaag	gacccgggac	ttgaacagt	ttgtgcggcg	ccatgcaggt	ctccagcctc	120
aatgaggtga	agatttacag	cctcagctgc	ggcaagtccc	ttcctgagtg	gctttctgat	180
aggaagaaga	gagcgctaca	gaagaaagat	gtagatgtcc	gtaggagaat	tgaacttatt	240
caggactttg	aaatgcctac	tgtgtgtacc	actattaagg	tgtcaaaaga	tggacagtac	300
attttagcaa	ctggaacata	ttaaactcgg	gttcgatgtt	atgacaccta	tcaattatcc	360
ttgaagtttg	aaaggtgttt	agattcagaa	gttgtcacct	ttgaaatttt	gtctgatgac	420
tactcaaaga	ttgtcttctt	acataatgat	agatacattg	aatttcattc	gcaatcaggt	480
ttt						483

&lt;210&gt; 227

&lt;211&gt; 486

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 227

gagcctcgct	aagctccgac	tctgggcggc	accgggcgtc	ccacgatgcc	gaagaacaag	60
aagcgggaaca	ctccccaccg	cggtagcagt	gctggcgggc	gcgggtcagg	agcagccgca	120
gcgacggcgg	cgacagcagg	tggccagcat	cgaaatgttc	agccttttag	tgatgaagat	180
gcatcaattg	aaacagttag	ccattgcagt	ggttatagcg	atccttccag	ttttgctgaa	240
gatggaccag	aagtccttga	tgaggaagga	actcaagaag	acctagagta	caagttgaag	300
ggattaattg	acctaaccct	ggataagagt	gcgaagacaa	ggcaagcagc	tcttgaaggt	360
attaaaaatg	cactggcctc	aaaaatgctg	tatgaattta	ttctggaaaag	gagaatgact	420
ttaactgata	gcattgaacg	ctgcctgaaa	aaaggtaaga	gtgatgagca	acgtgcagct	480
gcagcg						486

&lt;210&gt; 228

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 228

gaggccagga	ctccgggaat	gcgagcaggc	cccttattct	cccagtggcc	tcggtctgtc	60
cccacagcgg	cccggtcagg	gttgcccag	ccccaaaggc	gggggcggca	ccggggtgct	120
gaaagggaca	gaatgctttg	acctccaagc	tgttttaaat	ctagtagata	agccagatcc	180
tgtgttgcca	taagcccttg	gcccacattt	aagtgggaat	gcagctagct	tggatgtctg	240
aaactttgta	agcgcttct	gtctgaatcc	tgaacacagg	caccaagact	actgaagaag	300
ctcgtcattc	ttgtgcagg	atagccacac	aagcaaacat	gtttgcacaa	cttgaaagaa	360
agaaaattgc	agaaagaaga	cttgctgttc	ttaagaggcc	caggaaggtg	ctacttagga	420
atcccaccgg	cttgtgaagc	aagggaatca	agtttgcctt	caatggggaa	cttgacttca	480
ggaaaatgaa	cttt					494

&lt;210&gt; 229

<211> 465  
 <212> DNA  
 <213> Homo sapien

<400> 229  
 gtcagagagc tgggtataacc tcctgttgga catgcagaac cgactcaata aggtcatcaa 60  
 aagcgtgggc aagattgagc actccttctg gagatccttt cacactgagc gaaagacaga 120  
 accagccaca ggcttcatcg atggtgatct gattgaaagt ttcttagata tcagccgccc 180  
 taagatgcag gaggttgtgg caaacttgca gtatgatgat ggcagtggta tgaagcggga 240  
 ggcaactgca gatgacctca tcaaagtcgt ggaggaacta actcgatcc attagccaag 300  
 gacaggatct cttttcctga cctcctaaa ggcgttgccc tcctatcctc ccttccttgc 360  
 ccacccttgg tttctttggc atgggaaggt tttccttaac cacttgcct agagccacca 420  
 gtgacctgt gtggaaacag ggtttttttt acttaaaaca gttca 465

<210> 230  
 <211> 495  
 <212> DNA  
 <213> Homo sapien

<400> 230  
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 tgggtgaatat ctccctgcga gtgttgtctc gacccaatgc tcaggagctt ctagcatgt 120  
 accagcgctt agggctggac tacgaggaac gagtgttgcc gtccattgtc aacgaggtgc 180  
 tcaagagtgt ggtggccaag ttcaatgcct cacagctgat caccagcgg gccaggtat 240  
 ccctgttgat ccgcccggag ctgacagaaa gggccaaagg acttcagcct catcctggat 300  
 gatgtggcca tcacagactt gagcttttagc cgagaagtac acaagctgcc tgtaagaaac 360  
 ccaaccaagt ggggtgaatt ccaaaaaccc gtgggggtga agggcttctt aagaatgcaa 420  
 ggaaggagga aaagaattcc atgggggggg ggttccttaa cccaggaaca ggggtttccc 480  
 ttgaattttt ttcca 495

<210> 231  
 <211> 498  
 <212> DNA  
 <213> Homo sapien

<400> 231  
 ggcagcttct gagaccaggg ttgctccgtc cgtgctccgc ctgcctatga cttcctacag 60  
 ctatcgccag tcgtcggcca cgtcgtcctt cggaggcctg ggcggcggct ccgtgcgttt 120  
 tgggcccggg gtctgttttc gcgcgcccag cattcacggg ggctccggcg gccgcggcgt 180  
 atccgtgtcc tccgcccgtt ttgtgtcctc gtccctcctc gggggctacg gcggcggcta 240  
 cggcggcgtc ctgaccgcgt ccgacggggt gctggcgggc aacgagaagc taacctgca 300  
 gaacctcaac gaccgcctgc ctccctacctg gacaaagtgc gcgccctgga agcgggcaac 360  
 ggcgaactta gaggtgaaag aatcccgcga actggtacca aaaacaagg gcctggggcc 420  
 ttccgcgact tacagccaac ttactacacc gaacattcaa gaacttgcgg gaacaaaaat 480  
 ttttggtgcc acccat 498

<210> 232  
 <211> 465  
 <212> DNA  
 <213> Homo sapien

<400> 232  
 caggccggcc gagtaggaaa gctggaggcg cgggtgggga acatgtctga gtcggagctc 60  
 ggcaggaagt gggaccggtg tctggcggat gcggctctga agataggtac tggttttgga 120

ttaggaattg	ttttctcact	taccttcttt	aaaagaagaa	tgtggccatt	agccttcggt	180
tctggcatgg	gattaggaat	ggcttattcc	aactgtcagc	atgatttcca	ggctccatat	240
cttctacatg	gaaaatatgt	caaagagcag	gagcagtgc	ttcacctgag	aacatcccag	300
cgggaggaca	agagaaaatc	atgtttattc	ctcaggaata	cttgaagtgc	cctggagtaa	360
actgccattc	ttctgtaaca	atggtatcag	taatgcttta	aactccagca	cctgggttatg	420
catttgaaac	ccaagtctgg	ttcttggttt	ggattttctc	tctgg		465

<210> 233  
 <211> 366  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(366)  
 <223> n = A,T,C or G

<400> 233	
cagtaaaaaa	ggttatgttt
tgacaccacc	aaattcttat
aatcacaaca	aaatatacac
tattctcttt	ttaagtgggt
ananaataac	aaatattaaa
gacataaccc	tgaagctttt
ttatca	

<210> 234  
 <211> 379  
 <212> DNA  
 <213> Homo sapien

<400> 234	
gagggcagcc	ctcctacctg
accagtgcc	tgacgccatg
ccggccttgg	ggaatttgca
gagggactgc	aaaagctctc
cgggatttct	gaaatgttgg
tggaatccta	gtcctaata
tcttataaca	attgttgcc

<210> 235  
 <211> 406  
 <212> DNA  
 <213> Homo sapien

<400> 235	
caggctgcac	catgtacccc
actgggaggt	gggacccctt
gtttccagtt	taattgtttt
cattactgtt	gttaagcact
tttatagttt	tattttaatg
tttacctgtc	accgaagcca
tacatcctcc	agtggcgctt

<210> 236  
 <211> 278  
 <212> DNA  
 <213> Homo sapien

<400> 236  
 gagattagca cctgtgaaca atgcgttctc tgatgacact ctgagcatgg accaacgcct 60  
 tcttaagcta attctgcaaa atcacatatt gaaagtaaaa gttggcctta gcgacctcta 120  
 caatggacag atactggaaa ccattggagg caaacaactc cgagtctttg tgtatcggac 180  
 ggctatctgc atagaaaact catgcatggg gagaggaagc aagcagggaa ggaacgggtgc 240  
 cattcacata ttccgagaga tcatccaacc agcagaat 278

<210> 237  
 <211> 322  
 <212> DNA  
 <213> Homo sapien

<400> 237  
 cagggccgtg gcggaggagg agcgtgcac ggtggagcgt cggggccgacc tcacctacgc 60  
 ggagttcgtg cagcagtagc tgcgcccctg atcgcggagg tcgcgtcctg ttcaccggcc 120  
 cgtctgcccc gaccgcccac ggccgccttc ccctgacctc gcgcgcacgc gtggggctgg 180  
 ggcgggcagg ctggcggtcc ggccctggccg cgactctgcc cttctttcca gaggttccgg 240  
 gccctgtgct cccgcgcacag gttgctggct tcgtttgggg acagagtggg ccggtgagca 300  
 ccgccaacac ctactcctac ct 322

<210> 238  
 <211> 613  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (399)  
 <223> n=A,T,C or G

<400> 238  
 gaattcggca ccagccttct tggatcagga ccagtctcca ccccgtttct acagtggaga 60  
 tcagcctcct tcttatcttg gtgcaagtgt ggataaactc catcaccctt tagaatttgc 120  
 agacaaatct cccacacctc ctaattttacc tagcgataaa atctaccctc cttctgggtc 180  
 ccccgaagag aataaccagca cagccacocat gacttacatg acaactactc cagcaacagc 240  
 ccaaagtgc accaaggaag ccagctggga tgtggctgaa caaccaccca ctgctgattt 300  
 tgctgctgcc aacttcagc gcacgcacag aactaatcgt ccccttcccc ctccgccttc 360  
 ccagagatct gcagagcagc caccagttgt ggggcaggna caagcagcaa ccaatatagg 420  
 attaaataat tcccacaagg ttcaaggagt agttccagtt ccagagaggc cacctgaacc 480  
 tcgagccatg gatgaccctg cgtctgcctt catcagtgac agtgggtgctg ctgctgctca 540  
 gtgtcccatg gctacagctg tccagccagg cctgcctgag aaagtgcggg acggtgcccc 600  
 ggtcccgtg ctg 613

<210> 239  
 <211> 613  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 239

```

gaattcggca ccaggggaca ctggtgctga gctggatgat gatcagcact ggtctgacag 60
cccgtcggat gctgacagag agctgcgttt gccgtgcca gctgaggggg aagcagagct 120
ggagctgagg gtgtcggaag atgaggagaa gctgcccgc tcaccgaagc accaagagag 180
aggtccctcc caagccacca gcccacccg gtctccccag gaatcagctc ttctgttcat 240
tccagtccac agcccctcaa cagagggggc ccaactccca cctgtccctg ccgccaccca 300
ggagaaatca cctgaggagc gccttttccc tgagcctttg ctccccaag agaagcccaa 360
agctgatgcc ccctcggatc tgaaagctgt gcaactctccc atccgatcac agccagtgc 420
cctgccagaa gctaggactc ctgtctcacc agggagcccg cagccccagc caccctgtgg 480
ggcctccacg cccccaccca gcgaggtctc cagagccttc tctctcctgt gcaaaatggc 540
aactcttaag gaaaaactca ttgcaccagt tgcggaagaa gaggcaacag ttccaaacaa 600
taagatcact gta                                     613

```

&lt;210&gt; 240

&lt;211&gt; 585

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 240

```

gaattcggca cgagggtgaga tctacgatga actttaagat tggaggtgtg acagaacgca 60
tgccaacccc agttattaaa gcttttggca tcttgaagcg agcgccgct gaagtaaacc 120
aggattatgg tcttgatcca aagattgcta atgcaataat gaaggcagca gatgaggtag 180
ctgaaggtaa attaaatgat cattttcctc tcgtggtatg gcagactgga tcaggaactc 240
agacaaatat gaatgtaaat gaagtcatta gcaatagagc aattgaaatg ttaggaggtg 300
aacttgagcag caagatacct gtgcaccca acgatcatgt taataaaaagc cagagctcaa 360
atgatacttt tcccacagca atgcacattg ctgctgcaat agaagttcat gaagtactgt 420
taccaggact acagaagtta catgatgtct ttgatgcaa atccaaagag tttgcacaga 480
tcatcaagat tggacgtact catactcagg atgctgttcc acttactctt gggcaggaat 540
ttagtggtta tgttcaacaa gtaaaatatg caatgacaag aataa                                     585

```

&lt;210&gt; 241

&lt;211&gt; 566

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 241

```

gaattcggca ccaggcgagc tgcacctoga ggtgaaggcc tcaatgatga acgatgactt 60
cgagaagatc aagaactggc agaaggaagc ctttcacaag cagatgatgg gcggcttcaa 120
ggagaccaag gaagctgagg acggctttcg gaaggcacag aagccctggg ccaagaagct 180
gaaagaggta gaagcagcaa agaaagccca ccatgcagcg tgcaaagagg agaagctggc 240
tatctcacga gaagccaaca gcaaggcaga cccatccctc aaccctgaac agctcaagaa 300
attgcaagac aaaatagaaa agtgcaagca agatgttctt aagaccaaag agaagtatga 360
gaagtccctg aaggaaactc accagggcac accccagtac atggagaaca tggagcaggt 420
gtttgagcag tgccagcagt tcgaggagaa acgccttcgc ttcttccggg aggttctgct 480
ggaggttcag aagcacctag acctgtccaa tgtggctggc taaaaagcca tttaccatga 540
cctggagcag agcatcagag cagctg                                     566

```

&lt;210&gt; 242

&lt;211&gt; 556

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 242

```

gaattcggca cgagcaaagg tgaagcagga catgcctccg cccgggggct atgggcccac 60

```

```

cgactacaaa cggaacttgc cgcgtcgagg actgtcgggc tacagcatgc tggccatagg 120
gatttgaacc ctgatctacg ggcactggag cataatgaag tggaaaccgtg agcgaggcg 180
cctacaaatc gaggaacttc aggcctcgcat cgcgctgttg ccactgttac aggcagaaac 240
cgaccggagg accttgcaga tgcttcggga gaacctggag gaggaggcca tcatcatgaa 300
ggacgtgccc gactggaagg tgggggagtc tgtgttccac acaaccgct ggggtgcccc 360
cttgatcggg gagctgtacg ggctgcgcac cacagaggag gctctccatg ccagccacgg 420
cttcatgttg tacacgtagg cctgtgccc tccggccacc tggatccctg cccctcccca 480
ctgggacgga ataaatgctc tgcagacctg gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa ctcgag                                     551

```

<210> 243

<211> 591

<212> DNA

<213> Homo sapiens

<400> 243

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gtctatgttt gcagaaatac agatccaaga caaagacagg atgggcaactg ctggaaaagt 60
tattaaatgc aaagcagctg tgctttggga gcagaagcaa cccttctcca ttgaggaaaat 120
agaagtgtcc ccaccaaaaga ctaaagaagt tcgcattaag attttggcca caggaatctg 180
tcgcacagat gaccatgtga taaaaggaac aatgggtgtc aagtttccag tgattgtggg 240
acatgaggca actgggattg tagagagcat tggagaagga gtgactacag tgaaaccagg 300
tgacaaagtc atccctctct ttctgccaca atgtagagaa tgcaatgctt gtcgcaaccc 360
agatggcaac ctttgcatta ggagcgatat tactggtcgt ggagtactgg ctgatggcac 420
caccagattt acatgcaagg gcaaacacgt ccaccacttc atgaacacca gtacatttac 480
cgagtacaca gtggtggatg aatcttctgt tgctaagatt gatgatgcag ctctctctga 540
gaaagtctgt ttaattggct gtgggttttc cactggatat ggcgtgctg t 591

```

<210> 244

<211> 594

<212> DNA

<213> Homo sapiens

<400> 244

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gaattcggca cgagaacaga gtgaactgag catcagtcag aaaaagtcta tgtttgcaga 60
aatacagatc caagacaaag acaggatggg cactgctgga aaagttatta aatgcaaagc 120
agctgtgctt tgggagcaga agcaaccctt ctccattgag gaaatagaag ttgccccacc 180
aaagactaaa gaagttcgca ttaagatttt ggccacagga atctgtcgca cagatgacca 240
tgtgataaaa ggaacaatgg tgtccaagtt tccagtgatt gtgggacatg aggcaactgg 300
gattgtagag agcattggag aaggagtgc tacagtgaac ccaggtgaca aagtcatccc 360
tctctttctg ccacaatgta gagaatgcaa tgcttgtcgc aaccagatg gcaacctttg 420
cattaggagc gatattactg gtcgtggagt actggetgat ggcaccacca gatttacatg 480
caagggcaaa ccagtcacac acttcatgaa caccagtaca ttaccgagt acacagtggg 540
ggatgaatct tctgttgcta agattgatga tgcagctcct cctgagaaag tctg 594

```

<210> 245

<211> 615

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (105)

<223> n=A,T,C or G

<400> 245  
gtccctttcc tctgctgcog ctgggtcacg cttgtgcccg aaggaggaaa cagtgcacaga 60  
cctggagact gcagttctct atccttccac agctctttca ccatnctgga tcacttcctt 120  
tgaatgcaga agcttgctgg ccaaaagatg tgggaattgt tgcccttgag atctattttc 180  
cttctcaata tgttgatcaa gcagagttgg aaaaatatga tgggttagat gctggaaagt 240  
ataccattgg cttgggccag gccaaagatg gcttctgcac agatagagaa gatattaact 300  
ctctttgcat gactgtgggt cagaatctta tggagagaaa taacctttcc tatgattgca 360  
ttgggcggct ggaagttgga acagagacaa tcatcgacaa atcaaagtct gtgaagacta 420  
atthgatgca gctgtttgaa gagtctggga atacagatat agaaggaatc gacacaacta 480  
atgcatgcta tggaggcaca gctgctgtct tcaatgcttg ttaactggat tgagtccagc 540  
tcttgggatg gacggatatg cctggtaagt tgcaggagat attgctgtat atgccacagg 600  
aaatgctaga cctac 615

<210> 246  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 246  
gaattcggca ccaggtctgc tcccgctcgc cctgaaccca gtgcctgcag ccatggctcc 60  
cggccagctc gccttattta gtgtctctgc aaaaccggcc ttgtgaattt gcaagaaacc 120  
tgaccgctct tggtttgaat ctggctcgtt cgggaggac tgcaaaagct ctcagggatg 180  
ctggctctggc agtcagagat gtctctgagt tgacgggatt tcctgaaatg ttggggggac 240  
gtgtgaaaac tttgcatcct gcagtcocat ctggaatcct agctcgtaat attccagaag 300  
ataatgctga catggccaga cttgatttca atcttataag agttgttgcc tgcaatctct 360  
atccctttgt aaagacagtg gcttctccag gtgtaactgt tgaggaggct gtggagcaaa 420  
ttgacattgg tggagtaacc ttactgagag ctgcagccaa aaaccacgct cgagtgcacag 480  
tgggtgtgtga accagaggac tatgtgggtg ggtgtccacg gagatgcaga gctccgagag 540  
taagga 546

<210> 247  
<211> 564  
<212> DNA  
<213> Homo sapiens

<400> 247  
gaattcggca ccagagatca cgtgcagtga gatgcagcaa aaagttgaac ttctgagata 60  
tgaatctgaa aagcttcaac aggaaaattc tattttgaga aatgaaatta ctactttaaa 120  
tgaagaagat agcatttcta acctgaaatt agggacatta aatggatctc aggaagaaat 180  
gtggcaaaaa acggaaactg taaaacaaga aaatgctgca gttcagaaga tggttgaaaa 240  
tttaagaaa cagatttcag aattaataat caaaaaccaa caattggatt tgaaaaatac 300  
agaacttagc caaaagaact ctcaaaaacca ggaaaaactg caagaactta atcaacgtct 360  
aacagaaatg ctatgccaga aggaaaaaga gccaggaaac agtgcattgg aggaacggga 420  
acaagagaag tttaatctga aagaagaact ggaacgttgt aaagtgcagt cctccacttt 480  
agtgtcttct ctggaggcgg agctctctga agttaaata cagaccata ttgtgcaaca 540  
ggaaaaccac cttctcaaag atga 564

<210> 248  
<211> 434  
<212> DNA  
<213> Homo sapiens

<400> 248  
gttcttgttt gtggatcgct gtgatcgta cttgacaatg cagatcttcg tgaagactct 60

```

gactggtaag accatcacc ctcgaggttg gccagtgac accatcgaga atgtcaaggc 120
aaagatccaa gataaggaag gcatccctcc tgaccagcag aggtgatct ttgctggaaa 180
acagctggaa gatggggcga ccctgtctga ctacaacatc cagaaagagt ccaccctgca 240
cctggtgctc cgtctcagag gtgggatgca aatcttcgtg aagacactca ctggcaagac 300
catcaccctt gaggtggagc ccagtgcac catcgagaac gtcaaagcaa agatccagga 360
caaggaaggc attcctcctg accagcagag gttgatcttt gccggaaagc cagcctggga 420
agatggggcc gccca                                     434

```

```

<210> 249
<211> 416
<212> DNA
<213> Homo sapiens

```

```

<400> 249
gcgggcccag gaggcggcgg cggcggcgcc ggacgggccc cccgcggcag acggcgagga 60
cggacaggac ccgcacagca agcacctgta cacggccgac atgttcacgc acgggatcca 120
gagcgcgcgc cacttcgtca tgttcttcgc gccctggtgt ggacactgcc agcggctgca 180
gccgaacttg aatgacctgg gagacaaata caacagcatg gaagatgcca aagtctatgt 240
ggctaaaagt gactgcacgg cccactccga cgtgtgctcc gccagggggg tgcgaggata 300
ccccacctta aagcttttca agccaggcca agaagctgtg aagtaccagg gtcctcggga 360
cttcagaca ctggaaaact ggatgctgca gacactgaac gaggagccag tgacac 416

```

```

<210> 250
<211> 504
<212> DNA
<213> Homo sapiens

```

```

<400> 250
gaattcggca cgaggcgggt aacgttatag tatttgtcag aagttggggg ctccgtgggc 60
attgtgatcc gtcccaggca gtggattagg aggcagaag gagatccctt ccacggtgct 120
aggctgagat ggatcctctc agggcccaac agctggctgc ggagctggag gtggagatga 180
tggccgatat gtacaacaga atgaccagt cctgccaccg gaagtgtgtg cctcctcact 240
acaaggaagc agagctctcc aagggcgagt ctgtgtgcct ggaccgatgt gtctctaagt 300
acctggacat ccatgagcgg atgggcaaaa agttgacaga gttgtctatg caggatgaag 360
agctgatgaa gaggggtgcag cagagctctg ggctgcatg aggtccctgt cagtatacac 420
cctgggggtg accccacccc ttcccacttt aataaacgtg ctccctgttg ggtgtcatct 480
gtgaagactg ccaggcctag ctct                                     504

```

```

<210> 251
<211> 607
<212> DNA
<213> Homo sapiens

```

```

<400> 251
gatgaaaata cacaatttta ctagcaaatg cctctactgt aatcgctatt taccacaga 60
tactctgctc aaccatatgt taattcatgg tctgtcttgt ccatattgcc gttcaacttt 120
caatgatgtg gaaaagatgg ccgcacacat ggggatgggt cacattgatg aagagatggg 180
acctaaaaca gattctactt tgagttttga tttgacattg cagcagggtg gtcacactaa 240
catccatctc ctggttaacta catacaatct gagggatgcc ccagctgaat ctgttgctta 300
ccatgcccaa aataatcctc cagttcctcc aaagccacag ccaaagggtc aggaaaaggc 360
agatatccct gtaaaaagtt cacctcaagc tgcagtgcc tataaaaaag atgttgggaa 420
aaccctttgt cctctttgct tttcaatcct aaaaggaccc atatctgatg cacttgaca 480
tcacttacga gagaggcacc aagttattca gacggttcat ccagttgaga aaaagctcac 540
ctacaaatgt atccattgcc ttggtgtgta taccagcaac atgaccgcct caactatcac 600

```



tctgcat

607

&lt;210&gt; 252

&lt;211&gt; 618

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 252

```

gaattcgcac caggggtcct gctggtcttc gcctttcttc tccgcttcta ccccgtcggc 60
cgctgccact ggggtccctg gcccacccga catggcggcg gtgttgagca agtcctggag 120
cgcacggagc tgaacaagct gcccaggtct gtccagaaca aacttgaaaa gttccttgct 180
gatcagcaat ccgagatcga tggcctgaag gggcggcatg agaaatttaa ggtggagagc 240
gaacaacagt attttgaaat agaaaagagg ttgtcccaca gtcaggagag acttgtgaat 300
gaaacccgag agtgtcaaag cttgoggctt gagctagaga aactcaacaa tcaactgaag 360
gcactaactg agaaaaacaa agaacttgaa attgctcagg atcgcaatat tgccattcag 420
agccaattta caagaacaaa ggaagaatta gaagctgaga aaagagactt aattagaacc 480
atgagagac tatctcaaga acttgaatac ttaacagagg atgttaaacy tctgaatgaa 540
aaacttaaaag aaagcaatac aacaaagggg gaacttcagt taaaattgga tgaacttcaa 600
gcttctgatg tttctgtt                                     618

```

&lt;210&gt; 253

&lt;211&gt; 1201

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

```

gaattcggca ccaggggtggc gagcgcgggt gctgtgctgg ggcgagcagc ggggaccgtg 60
tgtgagtttg gcatgatttg gtcccctggg attctgcctt agcaagaaaag aagttggaaa 120
tacttctctg aagaaaaacta aaacaatata aaagccacag cttattgatt gcatgtcagc 180
ccccttacia atattggacac atttccctagc ctatttccac ctggaggaga tagtaggctg 240
aatcctgagc ctgagttcca aaatatgtta attgatgaaa gggtagcgtg tgaacatcat 300
aaacataatt atcaggctct gaaaattgaa cacaaaaggt tgcaggaaga atatgtaaaa 360
tcacaaaatg aacttaaacg tgtattaatt gaaaagcaag caagccagga aaaattccaa 420
ctgctccttg aagacttaag gggagaatta gtagagaaaag ctagagacat agaaaaaatg 480
aaactgcagg tactaacacc acaaaaattg gaattggtaa aagcccaact acaacaagaa 540
ttagaagctc caatgcgaga acgttttctg actcttgatg aagaagtgga aaggtacaga 600
gctgagtata acaagctgcg ctacgagtat acatttctca agtcagagtt tgaacaccag 660
aaagaagagt ttactcgggt ttcagaagaa gagaaaatga aatacaagtc agaggttgca 720
cgactggaga aggacaaaga ggagctacat aaccagctgc ttagtggtga tcccacgaga 780
gacagcaaac gaatggagca acttggttga gaaaaaaccc atttgcttca gaaattgaaa 840
agtttagagg ctgaagtagc agaattaagg gctgagaaaag aaaattcttg tgctcaggta 900
gaaaatgtcc aaagaatata ggtgaggcag ttggctgaga tgcaggctac actcagatcc 960
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tcaagcaatg aacagaatac ctgcttaatc agcaaaactgc atagagctga ccgagaaaatc 1080
agcacactgg ccagtgaagt gaaagagctt aaacatgcaa acaaaactaga aataactgac 1140
atcaaaactgg aggcagcaag agctaagagt gagctcgaaa gagaaaaggaa taagatccaa 1200
a                                                                 1201

```

&lt;210&gt; 254

&lt;211&gt; 560

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 254

```

gaattcggca ccagtttggg ggggtgaggtt taattggaaa tggctctctg ggactgaaaa 60
ctgatgtttt tgcagattac ctcagggaaa cggaggtttg ttgagttaca gacacattaa 120
accaaaggcc gtgggaaaaac ccctctccag ctccagggga ttggtcagga ccacccacta 180
accagtgcct tccttcttaa cattcacttt tagcagcttg tgtttatttt acatgggcag 240
ttttgatggg aaattgccat gaccacaggg gtttggagtt ctgctttttt tttttcttct 300
tctttttcgg gggactgggg gactcctccc aagatcacat tttagcatct ttctctccta 360
ctccatttag aaaaataagt aacaggtgaa atgtggtctc agtgtaacg ggataattct 420
gctaccggct cctccctgat gattctgaaa tacactactg aacgagctct ggctggctct 480
ttctatcctg gatgtggttc ttctgtgtag caattccttg atgtccagtt tggaaagatg 540
tactcttctc aacaagaaaa                    560

```

&lt;210&gt; 255

&lt;211&gt; 612

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 255

```

gaattcggca ccaggcgggg cagcagggcc ggggccatgg ggagcttgaa ggaggagctg 60
ctcaaagcca tctggcacgc cttcacggac tcgaccagga ccacagggca aggtctccaa 120
gtcccagctc aaggtccttt ccataacct gtgcacgggt ctgaaggttc ctcatgacct 180
agttgccctt gaagagcact tcagggatga tgatgagggg ccagtgtcca accagggtta 240
catgccttat ttaaacaggt tcatttttga aaagggtcca gacaactttg acaagattga 300
attcaatagg atgtgttgga ccctctgtgt caaaaaaaaa cctcaciaag aatcccctgc 360
tcattacaga agaagatgca tttaaaatat ggggtatttt caacttttta tctgaggaca 420
agtatccatt aattattgtg tcagaagaga ttgaatacct gcttaagaag cttacagaag 480
ctatgggagg aggttggcag caagaacaat ttgaacatta taaaatcaac tttgatgaca 540
gtaaaaatgg cctttctgca tgggaactta ttgagcttat tggaaatgga cagtttagca 600
aaggcatgga cc                    612

```

&lt;210&gt; 256

&lt;211&gt; 1132

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 256

```

gaattcggca cgaggtcttg gagaggcctc tggagcagga ggcccagtgg ctcttctgac 60
ccaaggcccc gccgtccagc ttctaagtgc cagatgatgg aggagcgtgc caacctgatg 120
cacatgatga aactcagcat caagggtgtg ctccagtcgg ctctgagcct gggccgcagc 180
ctggatgcgg accatgcccc cttgcagcag ttctttgtag tgatggagca ctgcctcaaa 240
catgggctga aagttaagaa gagttttatt ggccaaaata aatcattctt tggtcctttg 300
gagctgggtg agaaactttg tcagaagca tcagatatag cgactagtgt cagaaatctt 360
ccagaattaa agacagctgt gggaagaggc cgagcgtggc tttatcttgc actcatgcaa 420
aagaaactgg cagattatct gaaagtgtct atagacaata aacatctctt aagcgagttc 480
tatgagcctg aggtttaat gatggaggaa gaagggatgg tgattgttgg tctgctggtg 540
ggactcaatg ttctcgatgc caatctctgc ttgaaaggag aagacttgga ttctcaggtt 600
ggagtaatag atttttccct ctaccttaag gatgtgcagg atcttgatgg tggcaaggag 660
catgaaagaa ttactgatgt ccttgatcaa aaaaattatg tggaagaact taaccggcac 720
ttgagctgca cagttgggga tcttcaaacc aagatagatg gcttgaaaaa gactaactca 780
aagcttcaag agagctttc agctgcaaca gcagcaattt gctcacttca agaagaacag 840
cagcagttaa gagaacaaaa tgaattaatt cgagaaagaa gtgaaaagag tgtagagata 900
acaaaacagg ataccaaagt tgagctggag acttacaagc aaactcggca aggtctggat 960
gaaatgtaca gtgatgtgt gaagcagcta aaagaggaga agaaagtccg gttggaactg 1020
gaaaaagaac tggagttaca aatttgaatg aaaccgaaa tggaaattgc aatgaagtta 1080
ctggaaaagg acaccacgga gaagcaggac aactagttg ccctccgcca gc 1132

```

<210> 257  
 <211> 519  
 <212> DNA  
 <213> Homo sapiens

<400> 257  
 gaattcgtga caccgaggtgc tcgagatgaa ccccagcgcc cccagctacc ccatggcctc 60  
 tctgtacgtg ggggacctgc accccgacgt gaccgaggcg atgctctacg agaagttcag 120  
 cccggccggg cccatcctct ccatccgggt ctgcaggac atgatcacc gccgctcctt 180  
 gggctacgcg tacgtgaact tccagcagcc ggccggacgcg gaacgtgctt tggacaccat 240  
 gaattttgat gttataaagg gcaagccagt acgcacatg tggctctcagc gtgatccatc 300  
 acttcgcaaa agtggagtag gcaacatatt cattaaaaat ttggacaaat ccatcgacaa 360  
 taaagcacta tatgatacgt tttctgcgtt tggtaacatc ctttcatgta aggtggtttg 420  
 tgatgaaaat ggctccaagg gctatggatt tgtacacttt gaaacacagg aagcagctga 480  
 aagagctatt gaaaaaatga atgggatgct tctaaatga 519

<210> 258  
 <211> 596  
 <212> DNA  
 <213> Homo sapiens

<400> 258  
 gctttgccaa agacttagaa gctaagcaga aaatgagctt aacatcctgg tttttggtga 60  
 gcagtggagg cactcgccac aggtgccac gagaaatgat ttttggtgga agagatgact 120  
 gtgagctcat gttgcagtct cgtagtgtgg ataagcaaca cgctgtcatc aactatgatg 180  
 cgtctacgga tgagcattta gtgaaggatt tgggcagcct caatgggact tttgtgaatg 240  
 atgtaaggat tccggaacag acttatatca ccttgaaact tgaagataag ctgagatttg 300  
 gatatgatac aaatcttttc actgtagtac aaggagaaat gagggtcctt gaagaagctc 360  
 ttaagcatga gaagtttacc attcagcttc agttgtccca aaaatcttca gaatcagaat 420  
 tatccaaatc tgcaagtgcc aaaagcatag attcaaaggc agcagacgct gctactgaag 480  
 tgcagcacia aactactgaa gcaatgaaat ccgaggaaaa agccatggat atttctgcta 540  
 tgccccgtgg tactccatta tatgggcagc cgtcatgggt ggggatgat gaggtg 596

<210> 259  
 <211> 595  
 <212> DNA  
 <213> Homo sapiens

<400> 259  
 gaattcggca ccagagaaaa agcttcaagg tatattgagt cagagtcaag ataaatcact 60  
 tcggagaatt tcagaattaa gagaggagct gcaaatggac cagcaagcaa agaaacatct 120  
 tcaggacgag tttgatgcat gtttgaggga gaaagatcag tatatcagtg ttctccagac 180  
 tcaggtttct cttctaaagc agcgattaca gaatggccca atgaatgttg atgctcccaa 240  
 acccctccct cccggggagc tccaggcaga agtgcacggg gacacggaga agatggaggg 300  
 cgtcggggaa ccagtgggag gtgggacttc cgctaaaacc ctggaaatgc tccagcaaa 360  
 agtgaaacgt caggagaatc tgcttcagcg cgttaaggag acaattgggt cccacaagga 420  
 gcagtgcgca ctgctgctga gtgagaagga ggcactgcag gagcagttgg atgaaaggct 480  
 gcaggagctg gaaaagatga aggggatggg aataaccgag acgaagcggc aaatgcttga 540  
 gaccctggaa ctgaaagaag atgaaattgc tcagcttcgt agtcatatca aacag 595

<210> 260  
 <211> 994  
 <212> DNA

<213> Homo sapiens

<400> 260

```

gaattcggca cgaggcgttg cctgccttct tgctgtctat cagcctttct tgccctcttc 60
ttttcgctt cctgttctt ccttttctca aacaaacaag acatggcaaa ccgcagtcta 120
accagccct ttgaaattat ccatagtttt acagacagct ccaggccatg agccacaatg 180
tccaaaatta ttcttgagca ctgatataaa ttacttagac cttctttgag ggcagaactc 240
agctgttgct ctcatgatgg gcagtgtctg aaagggttct ggtatgtctt caaaatgagt 300
ccacgagttt actgagtgtt tacaggtaaa ggaatgaata taagatgtct ttctgatcag 360
aacagggtgc ccttcacatg agctttacta gactctggga gggaaaagta gccaaagtact 420
tctgaaccat tttttaatac ttgttttgtc atggtgaaat tatagcagtt atcccaaaat 480
gttttaatta tcaaaatact gtctttttaa aaaaaaaaaa agtaacacct tttaaagcat 540
tagatttcac ttgggtttct tttccaaaaa atgctaggta gacaaggcat tgtaaaccatg 600
agtttccctt aagaaccatc agaataataa tttaacatga agaaaactgc tatacttagt 660
agaaataata tctaaagttt aacaactaaa gtaccctcac agaatagcaa atacccttct 720
gttctggaca tgggttcaaa ttgaatatg gaaataattt ctttggaagt ccctagaggc 780
aggtcagagg agtatgtcat taagagggaa aggagagaat ggaaataaaa gtcactataa 840
tgcagattta tgccttattt tttagcattt tttaaatgtt gggctcttca aggtgttttt 900
tgctttttat tagatctata taaataagtt aactagcaat ttagttttgt atttaagcta 960
cacttaatct ttttctttgg tgatatattt ttct 994

```

<210> 261

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (538)

<223> n=A,T,C or G

<400> 261

```

gaattcggca ccagtggaga tccagctgaa ccatgccaac cgccaggctg cggaggcaat 60
caggaacctt cggaacaccc agggaaatgct gaaggacaca cagctgcacc tggacgatgc 120
tctcagaggc caggacgacc tgaaagagca gctggccatg gttgagcgca gagccaacct 180
gatgcaggct gagatcgagg agctcagggc atccctggaa cagacagaga ggagcaggag 240
agtggccgag caagagctac tggatgccag tgagcgcgtg cagctcctcc acaccagaa 300
caccagcctc atcaacacca agaagaagct ggagacagac atttcccaa tccagggaga 360
gatggaagac atcgtccagg aagcccgcaa cgcagaagag aaggccaaga aagccatcac 420
tgatgccgcc atgatggcgg aggagctgaa gaaggagcag gacaccagcg cccacctgga 480
gcggatgaag aagaacatgg agcagaccgt gaaggacctg cagcaccgtc tggacgangc 540
tgagcagctt ggcgctgaag ggcgggcaag aagcagatcc agaaactgga ggct 594

```

<210> 262

<211> 594

<212> DNA

<213> Homo sapiens

<400> 262

```

gaaaagggtg ctggagccaa aggcatagtc agggttaatg ctcttttttc tttatcccaa 60
atcagatagt gtttaggctt tttcatcaaa tataaaaacc cagcccagtt catggctcat 120
tcggcagcaa ccctgagacg ctttacagct ctagacccta aaaggtcaaa aggccgtctt 180
atgctcaata tacattttat tacccaatct gccccggaca ttaaataaaa ctccaaaaat 240
taaateccggc cctcaaacc cacaacagga cttaattgac ctcaccttca aggtgtagaa 300

```

```

taataaaaaaa aaaaagttgc aattccttgc ctccgctgtg agacaaaccc cagccacatc 360
tccagcacac aagaacttcc aaacgcctga accacagcag ccaggcggtc ctccagaacc 420
tctcccccca ggagcttgc acatgtgccg gaaatctggc cactaggcca aggaatgcct 480
gcagccccgg attcctccta agcogtgtcc catctgtgcg ggaccccact gaaaatcgga 540
ctgttcaact cacctggcag ccactctcag agaccctgga actctggccc aagg 594

```

```

<210> 263
<211> 506
<212> DNA
<213> Homo sapiens

```

```

<400> 263
gaattcggca cgagcggaaa cttagggggc acgtgagcca cggccacggc cgcataaggca 60
agcaccggaa gcaccccggc ggccgoggta atgctggtgg tctgcatcac caccggatca 120
acttcgacaa ataccaccca ggctactttg ggaaagttgg tatgaagcat taccacttaa 180
agaggaacca gagcttctgc ccaactgtca accttgacaa attgtggact ttggtcagtg 240
aacagacacg ggtgaatgct gctaaaaaca agactggggc tgctcccatc attgatgtgg 300
tgcatcgagg ctactataaa gttctgggaa agggaaagct cccaaagcag cctgtcatcg 360
tgaaggccaa attcttcagc agaagagctg aggagaagat taagagtgtt gggggggcct 420
gtgtcctggt ggcttgaagc cacatggagg gagtttcatt aaatgctaac tactttttta 480
aaaaaaaaaa aaaaaaaaaa ctcgag 506

```

```

<210> 264
<211> 600
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (32)
<223> n=A,T,C or G

```

```

<400> 264
ggctcgtgaa cacacactga cagctatagg gnaggcggcg gcaccgtccc cgcttcccct 60
cggcggcggg gtgtcccgtc ggccggccctg aagtgaacca taaacatgtc ttgtgagagg 120
aaaggcctct cggagctgcg atcggagctc tacttctca tcgcccgggt cctggaagat 180
ggaccctgtc agcaggcggc tcaggtgctg atccgcgagg tggccgagaa ggagctgctg 240
ccccggcgca ccgactggac cgggaaggag catcccagga cctaccagaa tctgggtgaag 300
tattacagac acttagcacc tgatcacttg ctgcaaatat gtcacgact aggacctct 360
cttgaacaag aaattcctca aagtgttcct ggagtacaaa ctttattagg agctggaaga 420
cagtctttac tacgcacaaa taaaagctgc aagcatgttg tgtggaaagg atctgctctg 480
gctgcgttgc actgtggaag accacctgag tcaccagtta actatggtag cccaccagc 540
attgcggata ctctgttttc aaggaaagctg aatgggaaat acagacttga gcgacttgtt 600

```

```

<210> 265
<211> 534
<212> DNA
<213> Homo sapiens

```

```

<400> 265
gaattcggca cgagtgagga gccatcatg gcgacgcccc ctaagcggcg ggcggtggag 60
gccacggggg agaaagtgtc gcgctacgag accttcatca gtgacgtgct gcagcgggac 120
ttgcgaaagg tgctggacca tcgagacaaag gtatatgagc agctggccaa ataccttcaa 180
ctgagaaatg tcattgagcg actccaggaa gctaagcact cggagttata tatgcagggt 240

```

```

gatttgggct gtaacttctt cgttgacaca gtggtcccag atacttcacg catctatgtg 300
gccctgggat atggtttttt cctggagttg acactggcag aagctctcaa gttcattgat 360
cgtaagagct ctctctcac agagctcagc aacagcctca ccaaggactc catgaatatc 420
aaagcccata tccacatgtt gctagagggg cttagagaac tacaaggcct gcagaatttc 480
ccagagaagc ctcaccattg acttcttccc cccatcctca gacattaaag agcc 534

```

```

<210> 266
<211> 552
<212> DNA
<213> Homo sapiens

```

```

<400> 266
gaattcggca ccagggcacc tccgcctcgc cgccgctagg tcggccggct ccgcccggct 60
gccgcctagg atgaatatca tggacttcaa cgtgaagaag ctggcggccg acgcaggcac 120
cttcctcagt cgcgcctgtc agttcacaga agaaaagctt ggccaggctg agaagacaga 180
attggatgct cacttagaga acctccttag caaagctgaa tgtaccaaaa tatggacaga 240
aaaaataatg aaacaaactg aagtgttatt gcagccaaat ccaaatgcca ggatagaaga 300
atttgtttat gagaaaactg atagaaaagc tccaagtcgt ataaacaacc cagaactttt 360
gggacaatat atgattgatg cagggactga gtttggccca ggaacagctt atggtaatgc 420
ccttattaaa tgtggagaaa cccaaaaaag aattggaaca gcagacagag aactgattca 480
aacgtcagcc ttaaattttt ttactccttt aagaaacttt atagaaggag attacaaaac 540
aattgctaaa ga 552

```

```

<210> 267
<211> 551
<212> DNA
<213> Homo sapiens

```

```

<400> 267
gaagcctacc agccagggtgc cggccccccc acccccggcc cagccccctc ctgcagcggt 60
ggaagcggtc cggcagatcg agcgtgaggc ccagcagcag cagcacctgt accgggtgaa 120
catcaacaac agcatgcccc caggacgcac gggcatgggg accccgggga gccagatggc 180
ccccgtgagc ctgaatgtgc ccgacccaa ccaggtgagc gggcccgtca tgcccagcat 240
gctccccggg cagtggcagc aggcgccctt tccccagcag cagcccatgc caggcttgcc 300
caggcctgtg atatccatgc aggcccaggg ggcgctggct gggccccgga tgcccagcgt 360
gcagccaccc aggagcatct caccagcgc tctgcaagac ctgctgcgga ccctgaagtc 420
gccagctcc cctcagcagc aacagcaggt gctgaacatt ctcaaataca acccgagct 480
aatggcagct ttcatcaaac agcgcacagc caagtacgtg gccaatcagc ccggcatgca 540
gccccagcct g 551

```

```

<210> 268
<211> 573
<212> DNA
<213> Homo sapiens

```

```

<400> 268
gaattcggca ccaggggttc ttgtgggcta gaagaatcct gcaaaaatgt ctctctatcc 60
atctctcgaa gacttgaagg tagacaaagt aattcaggct caaactgctt tttctgcaaa 120
ccctgccaat ccagcaattt tgtcagaagc ttctgtcct atccctcacg atggaaatct 180
ctatcccaga ctgtatccag agctctctca atacatgggg ctgagtttaa atgaagaaga 240
aatacgtgca aatgtggccg ttgtttctgg tgcaaccact caggggcagt tggtagcaag 300
accttccagt ataaactata ttgtggctcc tgtaactggg aatgatgttg gaattcgtag 360
agcagaaatt aagcaaggga ttctggaagt cattttgtgt aaggatcaag atggaaaaat 420
tggactcagg cttaaataca tagataatgg tatatttgtt cagctagtcc aggctaattc 480

```

tccagcctca ttggttggtc tgagatttgg ggaccaagta cttcagatca atggtgaaaa 540  
ctgtgcagga tggagctctg ataaagcgca caa 573

<210> 269  
<211> 500  
<212> DNA  
<213> Homo sapiens

<400> 269  
gaatcggcac caggaaacct ttattagcag agatagctgg cttggatcag attacgggga 60  
atgtggggga gccatgaaga aactaactaa aggggagcct ttggggacca gggggagaca 120  
agtcaactatt ttgagggaga aagctctgga ttgattctga caggacactt gagtgtgaac 180  
tgtccaagct aagcctctgg gtgtgtagag agagccctta cagatagata gcacctttgc 240  
tttcagagtg gaaggactag ccactaagga ccagaccaag atgcatgtag gtcactgaca 300  
agcacctgat gaagaggagg ggtctcctcc aagtttgtgt ttggaactcc tctgtgttc 360  
aatttcctaa aagccataat ccagcaagct gaactcatga gaaggtctgc ttcattgtga 420  
gcatggaaga cagaacacag acggaaactg cagtgatggg gtgaagacac cacggatagg 480  
ttaggggcag tgaggaggaa 500

<210> 270  
<211> 224  
<212> DNA  
<213> Homo sapiens

<400> 270  
gaattcggca cgagaagact acaatctcca gggaaacctg gggcgtctcg cgaaaacgtc 60  
cataactgaa agtagctaag gcaccccagc cggaggaagt gagctctcct ggggcgtggg 120  
tgttcgtgat ccttgcatct gttacttagg gtcaaggctt gggctcttgc cgcagagacc 180  
ttgggacgac ccggccccag cgcagctatg aacctggagc gagt 224

<210> 271  
<211> 447  
<212> DNA  
<213> Homo sapiens

<400> 271  
gaattcggca cgaggctggg ccgggcccga gcggtatcgg ggctcgggct gcggggctcc 60  
ggctgcgggc gctgggcccgc gaggcgccga gcttgggagc ggagcccagg ccgtgccgcg 120  
cggcgccatg aagggcaagg aggagaagga gggcgggcga cggctgggcg ctggcggcgg 180  
aagccccgag aagagcccga gcgcgcagga gctcaaggag cagggcaatc gtctgttcgt 240  
gggccgaaag taccgggagg cggcggcctg ctacggccgc gcgatcacc ggaacccgct 300  
ggtggccgtg tattacacca accgggcctt gtgctacctg aagatgcagc agcacgagca 360  
ggccttgcc gactgccggc gcgccttgga gctggacggg cagtctgtga aggcgcaact 420  
cttcctgggg cagtgccagc tggagat 447

<210> 272  
<211> 606  
<212> DNA  
<213> Homo sapiens

<400> 272  
gcaactactt atattccttt gatggataat gotgactcaa gtctgtggg agataagaga 60  
gaggttattg atttgcttaa acctgaccaa gtagaaggga tccagaaatc tgggactaaa 120  
aaactgaaga ccgaaactga caaagaaaat gctgaagtga agtttaaaga ttttcttctg 180

```

tccttgaaga ctatgatgtt ttctgaagat gaggtctttt gtgttgtaga cttgctaaag 240
gagaagtctg gtgtaataca agatgcttta aagaagtcaa gtaagggaga attgactacg 300
cttatacatc agcttcaaga aaaggacaag ttactcgctg ctgtgaagga agatgctgct 360
gctacaaagg atcgggtgtaa gcagttaacc caggaaatga tgacagagaa agaaagaagc 420
aatgtgggta taacaaggat gaaagatcga attggaacat tagaaaagga acataatgta 480
tttcaaaaca aaatacatgt cagttatcaa gagactcaac agatgcagat gaagtttcag 540
caagttcgtg agcagatgga ggcagagata gctcacttga agcaggaaaa tgggtatact 600
ggagaa 606

```

```

<210> 273
<211> 598
<212> DNA
<213> Homo sapiens

```

```

<400> 273
gaattcggca ccaggcccgg tcccgcggtc gcagctccag ccgcctcctc cgcgcagccg 60
ccgcctcagc tgctcgctct gtgggtcggg cctctccggc acttgggctc cagtcgcgcc 120
ctccaagccc ttcaggccgc cccagtgtcc tcctccttct ccggccagac ccagccccgc 180
gaagatggtg gaccgcgagc aactgggtga gaaagcccgg ctggccgagc aggcggagcg 240
ctacgacgac atggccgagg ccatgaagaa cgtgacagag ctgaatgagc cactgtcgaa 300
tgaggaacga aaccttctgt ctgtggccta caagaacgtt gtgggggcac gccgctcttc 360
ctggagggtc atcagtagca ttgagcagaa gacatctgca gacggcaatg agaagaagat 420
tgagatggtc cgtgcgtacc gggagaagat agagaaggag ttggaggctg tgtgccagga 480
tgtgctgagc ctgctggata actacctgat caagaattgc agcgagaccc agtacgagag 540
caaagtgttc tacctgaaga tgaaagggga ctactaccgc tacctggctg aagtggcc 598

```

```

<210> 274
<211> 536
<212> DNA
<213> Homo sapiens

```

```

<400> 274
gcaccaagag actaaacaag aaagtggatc agggagaag aaagcttcat caaagaaaca 60
aaagacagaa aatgtcttcg tagatgaacc ccttattcat gcaactactt atattccttt 120
gatggataat gctgactcaa gtctgtgggt agataagaga gaggttattg atttgcttaa 180
acctgaccaa gtagaaggga tccagaaatc tgggactaaa aaactgaaga ccgaaactga 240
caaagaaaat gctgaagtga agtttaaaaga ttttcttctg tccttgaaga ctatgatgtt 300
ttctgaagat gaggtctttt gtgttgtaga cttgctaaag gagaagtctg gtgtaataca 360
agatgcttta aagaagtcaa gtaagggaga attgactacg cttatacatc agcttcaaga 420
aaaggacaag ttactcgctg ctgtgaagga agatgctgct gctacaaagg atcgggtgta 480
gcagttaacc caggaaatga tgacagagaa agaaagaagc aatgtgggta taacaa 536

```

```

<210> 275
<211> 494
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (379)
<223> n=A,T,C or G

```

```

<400> 275
gaattcggca ccagggtcgc gggtcttgggt tgtggatcgc tgtgatcgct acttgacaat 60

```



```

gcagatcttc gtgaagactc tgactggtaa gaccatcacc ctcgaggttg agcccagtga 120
caccatcgag aatgtcaagg caaagatcca agataaggaa ggcatccctc ctgaccagca 180
gaggetgato tttgctggaa aacagctgga agatgggcgc accctgtctg actacaacat 240
ccagaaagag tccaccctgc acctgggtgt cctgtctcaga ggtgggatgc aaatcttcgt 300
gaagacactc actggcaaga ccatcaccct tgaggtggag cccagtgaca ccatcgagaa 360
cgtcaaagca aagatccang acaaggaagg cattcctcct gaccagcaga ggttgatctt 420
tgccgaaaag cagctggaag atgggcgcac cctgtctgac tacaacatcc agaaagagtc 480
taccctgcac ctgg                                     494

```

```

<210> 276
<211> 484
<212> DNA
<213> Homo sapiens

```

```

<400> 276
ggcttttaac cagaagtcaa acctgttcag acagaaggca gtcacagcag aaaaatcttc 60
agacaaaagg cagtcacagg tgtgcaggga gtgtgggcga ggcttttagca ggaagtcaca 120
gctcatcata caccagagga cacacacagg agaaaagcct tatgtctgcg gagagtgtgg 180
gcgaggcttt atagttgagt cagtcctccg caaccacctg agtacacact ccggggagaa 240
accttatgtg tgcagccatt gtgggcgagg ctttagctgc aagccatacc tcatcagaca 300
tcagaggaca cacacaaggg agaaatcggt tatgtgcaca gtgtgtgggc gaggcttttcg 360
tgaaaagtca gagctcatta agcaccagag aattcacacg ggggataagc cttatgtgtg 420
cagagattga ggccgaggct ttgtaaagga gatcatgtct caacacacac cagaggatta 480
catt                                             484

```

```

<210> 277
<211> 513
<212> DNA
<213> Homo sapiens

```

```

<400> 277
gcttgagggt gccaatcaga gcttggcaga gctgagagat cagcggcagg gggagcgcct 60
ggaacatgca gcagctttgc gggccctaca agatcaggta tccatccaga gtgcagatgc 120
acaggaacaa gtggaagggc ttttggctga gaacaatgcc ttgaggacta gcctggctgc 180
cctggagcag atccaaacag caaagaccca agaactgaat atgctccggg aacagaccac 240
tgggtggcga gctgagttgc agcagcagca ggctgagtac gaggacctta tgggacagaa 300
agatgacctc aactccagc tccaggagtc attacgggcc aatagtcgac tgctggaaca 360
acttcaagaa atagggcagg agaaggagca gttgaccag gaattacagg aggctcggaa 420
gagtgcggag aagcgggaag ccatgcttgg atgagctagc aatggaaacg ctgcaagaga 480
agtcccacac aaggaagagc ttgggagcag ttc                                             513

```

```

<210> 278
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<400> 278
gaattcggca ccagccaagg cctgtccct ggctcgggcc cttgaagagg ccttggaaagc 60
caaagaggaa ctcgagcggg ccaacaaaat gctcaaagcc gaaatggaag acctggtcag 120
ctccaaggat gacgtgggca agaacgtcca tgagctggag aagtccaagc gggccctgga 180
gaccagatg gaggagatga agacgcagct ggaagagctg gaggacgagc tgcaagccac 240
ggaggacgcc aaactgcggc tggaaagtcaa catgcaggcg ctcaagggcc agttcgaaaag 300
ggatctccaa gcccgggacg agcagaatga ggagaagagg aggcaactgc agagacagct 360
tcacgagtat gagacggaac tggaaagacga gcgaaagcaa cgtgccctgg cagctgcagc 420

```

aaagaagaag ctggaagggg acctgaaaga cctggagctt caggccgact t 471

<210> 279  
 <211> 497  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (457)  
 <223> n=A,T,C or G  
 <221> misc\_feature  
 <222> (471)  
 <223> n=A,T,C or G

<400> 279  
 gaattcggca cgaggccaca gaggcggcgg agagatggcc ttcagcggtt cccaggctcc 60  
 ctacctgagt ccagctgtcc ccttttctgg gactattcaa ggaggtctcc aggacggact 120  
 tcagatcact gtcaatggga ccgttctcag ctccagtga accaggtttg ctgtgaactt 180  
 tcagactggc ttcagtggaa atgacattgc cttccacttc aaccctcggg ttgaagatgg 240  
 agggtagctg gtgtgcaaca cgaggcagaa cggaagctgg gggcccagg agaggaagac 300  
 acacatgcct ttccagaagg ggatgccctt tgacctctgc ttcctggtgc agagctcaga 360  
 tttcaagggtg atggtgaacg ggatcctctt cgtgcagtac ttccaccgag tgcccttcca 420  
 ccgtgtggac accatctccg tcaatggctc tgtgcanctg tcctacatca ncttccagac 480  
 ccagacagtc atccaca 497

<210> 280  
 <211> 544  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (451)  
 <223> n=A,T,C or G

<400> 280  
 gaattcggca ccagaatagg aacagctccg gtctacagct cccagcgtga gcgacgcaga 60  
 agacgggtga tttctgcatt tccatctgag gtaccgggtt catctcacta gggagtgcc 120  
 gacagtgggc gcaggccagt gtgtgtgccc accgtgcgag agccgaagca gggcgaggca 180  
 ttgcctcacc tgggaagcac aaggggtcag ggagttccct ttccgagtca aagaaagggg 240  
 tgacggacgc acctggaaaa tcgggtcact cccacccgaa tattgtgctt ttcagaccgg 300  
 cttaagaaac ggcgaccac gagactatat cccacacctg gctcagaggg tcctacgccc 360  
 acggaatctc gctgattgct agcacagcag tcttagatca aactgcaagg ggggcaacga 420  
 ggctggggga gggcgcccg ccattgccc ngcttgctta ggtaaacaaa gcagccggga 480  
 agcttgaact ggggtggagcc caccacagct caaggaggcc tgctgcctc tgtagctcca 540  
 cctc 544

<210> 281  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (456)  
 <223> n=A,T,C or G

<400> 281  
 gaattcggca cgaggcctcg ctcagctcca acatggcaaa aatctccagc cctacagaga 60  
 ctgagcgggtg catcgagtcc ctgattgctg tcttcagaa gtatgctgga aaggatgggt 120  
 ataactacac tctctccaag acagagttcc taagcttcat gaatacagaa ctagctgcct 180  
 tcacaaagaa ccagaaggac cctgggtgtcc ttgaccgcat gatgaagaaa ctggacacca 240  
 acagtgatgg tcagctagat ttctcagaat ttcttaatct gattgggtggc ctagctatgg 300  
 cttgccatga ctcttctctc aaggctgtcc cttcccagaa gcggacctga ggaccccttg 360  
 gccctggcct tcaaaccac cccctttctc tccagccttt ctgtcatcat ctccacagcc 420  
 caccatccc ctgagcacac taaccacctc atgcanggcc cccctgcca tagtaataaa 480  
 gcaatgtcct tttttaaaac atgaaaaaaa aaaaaaaaaa actcgag 527

<210> 282  
 <211> 514  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (494)  
 <223> n=A,T,C or G

<400> 282  
 ggaagactgg agcctttgcg gcggcgctgc cctccccctg gtccccgcga gctcggaggg 60  
 cccggtggt gctgcggggg ccccgaggag ttgaaaacta agcatgggga agagctgcaa 120  
 ggtggtcgtg tgtggccagg cgtctgtggg caaaacttca atcctggagc agcttctgta 180  
 tgggaaccat gtagtgggtt cggagatgat cgagacgcag gaggacatct acgtgggctc 240  
 cattgagaca gaccgggggg tgcgagagca ggtgcgtttc tatgacacc gggggctccg 300  
 agatggggcc gaactgcccc gacactgctt ctcttgact gatggctacg tcctggtcta 360  
 tagcacagat agcagagagt ctttccagcg tgtggagctg ctcaagaagg agattgacaa 420  
 atccaaggac aagaaggagg tcaccatcgt ggtccttggc aacaagtgtg acttacagga 480  
 gcagcggcgt gtanacccaa atgtggctca acac 514

<210> 283  
 <211> 484  
 <212> DNA  
 <213> Homo sapiens

<400> 283  
 gggcgggagg tggacagtca tggcggcccg ggcgggggct ctcatagtgc tggagggcgt 60  
 ggaccgcgcc gggaagagca cgcagagccg caagctgggt gaagcgtgt gcgccgcggg 120  
 ccaccgcgcc gaactgctcc ggttcccga aagatcaact gaaatcggca aacttctgag 180  
 ttctacttg caaaagaaaa gtgacgtgga ggatcactcg gtgcacctgc tttttctgta 240  
 aaatcgctgg gaacaagtgc cgtaatttaa ggaaaagtgg agccagggag tgaccctcgt 300  
 cgtggacaga tacgcatttt ctgggtgtgg cttcaccggt gccaaaggaga atttttccct 360  
 agactgggtg aaacagccag acgtgggcct tcccaaacc gacctggtcc tgttctcca 420  
 gttacagctg gcggatgctg ccaagcgggg agcgtttggc catgagcgct atgagaacgg 480  
 ggct 484

<210> 284  
 <211> 514

<212> DNA  
 <213> Homo sapiens

<400> 284  
 gaattcggca cgaggcggag gccgcggagg ctctcgggtc cttcagcacc cctcggcccg 60  
 acgcacccac gcccctcacc ccccgagagc cgaaaatgga cccaagtggg gtcaaagtgc 120  
 tggaacagc agaggacatc caggagaggc ggagcaggt cctagaccga taccaccgct 180  
 tcaaggaact ctcaaccctt aggcgtcaga agctggaaga ttctatcga ttccagttct 240  
 ttcaaagaga tgctgaagag ctggagaaat ggatacagga aaaacttcag attgcatctg 300  
 atgagaatta taaagaccca accaacttgc agggaaagct tcagaagcat caagcatttg 360  
 aagctgaagt gcaggccaac tcaggagcca ttgttaagct ggatgaaact ggaaacctga 420  
 tgatctcaga agggcatttt gcatctgaaa ccatacggac ccgtttgatg gagctgcacc 480  
 gccagtggga attacttttg gagaagatgc gaga 514

<210> 285  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<400> 285  
 gaattcggca cgaggccggg ctccaccgcg catcctgctc cactctggcg accgcccccg 60  
 gggccccgc cgcgggcgcg gcgcccgcga tggcgagga ggactactat ctggagctgt 120  
 gcgagcggcc ggtgcagttc gagaaggcga accctgtcaa ctgcgtcttc ttcatgagg 180  
 ccaacaagca ggtttttgct gtctgatctg gtggagctac tggcgtggta gttaaaggcc 240  
 cagatgatag gaatcccatc tcatttagaa tggatgacaa aggagaagtg aagtgcatta 300  
 agttttcctt agaaaataag atattggctg ttcagaggac ctcaaagact gtggattttt 360  
 gtaattttat ccctgataat tcc 383

<210> 286  
 <211> 943  
 <212> DNA  
 <213> Homo sapiens

<400> 286  
 gaattcggca ccagggccgt ggcgaggag gagcgtgca cgggtggagcg tcgggccgac 60  
 ctcacctacg cggagtctgt gcagcagtae gtgcgcccct gatcgcgag gtcgctcct 120  
 gttcacccgc cgtctgccc cgaccgccc aggcgcctt cccctgacct cgcgcgcacg 180  
 cgtggggctg gggcgcgag gctggcggtc cggcctggcc gcgactctgc cttctttcc 240  
 agaggttccg ggccctgtgc tcccgcgaca ggttgctggc ttctgttggg gacagagtgg 300  
 tccggctgag caccgccaac acctactcct accacaaagt ggacttgccc ttccaggagt 360  
 atgtggagca gctgctgcac cccagagacc ccacctccct gggcaatggt gaggcagccc 420  
 taggcggcgg taggggttg ggacgcttg agtctccagg tgccaggatc cctgtccccg 480  
 ccgtctctgt tggcagacac cctgtaactt ttccgggaca acaacttcac cgagtgggcc 540  
 tctctctttc ggcaactatc cccaccccc tttggcctgc tgggaaccgc tccagcttac 600  
 agcttttgaa tcgcaggagc tggtctgggg gtgcccttcc actggcatgg acccggttac 660  
 tcagaagtga tctacggtcg taagcgttg ttctttacc cacctgagaa gacgccagag 720  
 ttccacccca acaagaccac actggccttg ctcgggaca cataccagc cctgccaccg 780  
 tctgcacggc cctggagtg taccatccg cgtggtagg tgctgtactt ccccgaccgc 840  
 tgggtggcatg ctacgtcaa ccttgacacc agcgtcttca tctccacctt cctcggctag 900  
 ccaaaacagc tggcaggact gccggtcaca caccagcacg tcc 943

<210> 287  
 <211> 1143  
 <212> DNA

<213> Homo sapiens

<400> 287

```

gaattcggca cgaggggaaga acagctgttg gaacaacaag aatattttaga aaaagaaatg 60
gaggaagcaa agaaaatgat atcaggacta caggccttac tgctcaatgg atccttacct 120
gaagatgaac aggagaggcc cttggccctc tgtgaaccag gtgtcaatcc cgaggaacaa 180
ctgattataa tccaaagtcg tctggatcag agtatggagg agaatcagga cttaaagaag 240
gaactgctga aatgtaaaca agaagccaga aacttacagg ggataaagga tgccttgtag 300
cagagattga ctacgcagga cacatctgtt cttcagctca aacaagagct actgagggca 360
aatatggaca aagatgagct gcacaaccag aatgtggatc tgcagaggaa gctagatgag 420
aggaaccggc tcttgggaga atataaaaaa gagctggggc agaaggatcg ccttcttcag 480
cagcaccagg ccaagttaga agaagcactc cggaaactct ctgatgtcag ttaccaccag 540
gtggatctag agcgagagct agaacacaaa gatgtcctct tggctcactg tatgaaaaga 600
gaggcagatg aggcgaccaa ctacaacagt cacaactctc aaagcaatgg ttttctcctt 660
ccaacggcag gaaaaggagc tacttcagtc agcaacagag ggaccagcga cctgcagctt 720
gttcgagatg ctctccgcag cctgcgcaac agcttcagtg gccacgatcc tcagcaccac 780
actattgaca gcttggagca gggcatttct agcctcatgg agcgccctgca tgttatggag 840
acgcagaaga aacaagaaag aaagggttcgg gtcaagtcac ccagaactca agtaggtagt 900
gaataccggg agtcctggcc ccctaactca aagttgcctc actcacagag ctctccaact 960
gtcagcagca cctgtactaa agtgccttat ttcactgacc ggtcacttac gcccttcatt 1020
gtcaatatac caaagagggt ggaggagggt acgttaaagg attttaaagc agctattgat 1080
cggaaggaag atcaccggta tcacttcaaa gcactggatc ctgagtttgg cactgtcaaa 1140
gag 1143

```

<210> 288

<211> 881

<212> DNA

<213> Homo sapiens

<400> 288

```

gtgagagcgg gccgaggaga ttggcgacgg tgtcgcccgt gttttcgttg gcgggtgcct 60
gggctgggtg gaacagccgc ccgaaggag caccatgatt tcggccgcgc agttgttga 120
tgagttaatg ggccgggacc gaaacctagc cccggacgag aagcgagca acgtgcggtg 180
ggaccacgag agcgtttgta aatattatct ctgtggtttt tgtcctgcgg aattgttcac 240
aaatacacgt tctgatcttg gtccgtgtga aaaaattcat gatgaaaatc tacgaaaaca 300
gtatgagaag agctctcgtt tcatgaaagt tggctatgag agagattttt tgcgatactt 360
acagagctta cttgcagaag tagaacgtag gatcagacga ggccatgctc gtttggcatt 420
atctcaaaac cagcagctct ctggggccgc tggcccaaca ggcaaaaatg aagaaaaaat 480
tcaggttcta acagacaaaa ttgatgtact tctgcaacag attgaagaat tagggtctga 540
aggaaaagta gaagaagccc aggggatgat gaaattagtt gagcaattaa aagaagagag 600
agaactgcta aggtccacaa cgtcgacaat tgaaagcttt gctgcacaag aaaaacaaat 660
ggaagtttgt gaagtatgtg gagccttttt aatagtagga gatgccagtc cccgggtaga 720
tgaccatttg atgggaaaac aacacatggg ctatgccaaa attaaagcta ctgtagaaga 780
attaaaagaa aagttaagga aaagaaccga agaacctgat cgtgatgagc gtctaaaaaa 840
ggagaagcaa gaaagagaaa aaaaaaaaaa aaaaactcga g 881

```

<210> 289

<211> 987

<212> DNA

<213> Homo sapiens

<400> 289

```

gaattcggca cgagggactg ttgtttccag gaatggtggc gtctcacgct tcttgtgctt 60
tttcttttgg ggctccgag cggctggggg ttgggggactg ggcaggaggc tccctgtaaa 120

```

```

catttgact tgggctggg caggggctgg tgttgggcaa agctgggggt ccaggctgga 180
gaagcagggg cccctccaga cgcagccttg ggagactcag catgtgcccc cctccccctca 240
tcacagaaca agacaatggt taaaaaccag aacagatgcc cagaaggggg taccatggcc 300
attaccagca tctcagacaa gggcaggctt caaacaggga ggctgtggc aaccctccc 360
ctacgtctgg agctgagggg acagggggag ctgagaacaa agagaggaaa gaggagaaaa 420
gcggcggggg aacaggcggg gagcgtgatc ttcttgcccc catcttcctc aggggttggg 480
gggtacaaag tcggcgggtg cccatcccgc caggccccgc tgccctcag aagaggccgc 540
agtccttcag gttgttcttg atgatgacat cggtgacggc gtcaaacacg aactgcacgt 600
tcttggtgtc ggtggcgcac gtgaagtgcg tgtagatctc cttggtgtct ttgcgcttat 660
tcaggctctc aaacttactc tggatgtagc tggctgcctc atcatatttg ttggccccctg 720
tatactcagg gaagcagatg gtcaggggac tgtgtgtgat cttctcctca aacaggctct 780
tcttggttag gaagaggatg atggacgtgt ctgtgaacca cttgttgttg cagatgctat 840
cgaatagctt catgtcttca tgcattgggt tcattctctc gtcctcagct agcaccaagt 900
cataggcgct caaggctacg cagaagatga tggctgtgac gccctcaaag cagtggatcc 960
acttcttccg ctcagaccgc tgaccac 987

```

```

<210> 290
<211> 300
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(300)
<223> n = A,T,C or G

```

```

<400> 290
gattcaagat gtacccatt gactttgaga aggatgatga cagcaacttt catatggatt 60
tcacgtggc tgcatccaac ctccgggcag aaaactatga cattccttct gcagaccggc 120
acaagagcaa gctgattgca ggaagatca tcccagccat tgccacgacc acagcagccg 180
tggttggcct tgtgtgtctg gagctgtaca aggttgtgca ggggcaccga cancttgact 240
cctacangaa tgggtgcctc aacttgagcc ctgcctttct ttggtttctc tgaaccctt 300

```

```

<210> 291
<211> 352
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(352)
<223> n = A,T,C or G

```

```

<400> 291
aaccaagctg ccaccggggg tggatcggat gcggcttgag aggcattctgt ctgccgagga 60
cttctcaagg gtatttgcca tgtcccctga agagtttggc aagctggctc tgtggaagcg 120
gaatgagctc aagaagaagg cctctctctt ctgatggccc ccacctgctc cgggacggcc 180
cccttaccct tgctgcttca gggtttttcc ccggcgggtt gggaggggca ggaggtgggg 240
tggaatnngg gtgggcncct ttcctcaggt agagnngggg gccaaaacct ctgcngtccc 300
cggagnagac tatggacttt cttccccctc acaaggntgg gggcctcctg ct 352

```

```

<210> 292
<211> 511

```

<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(511)  
<223> n = A,T,C or G

```

<400> 292
cgcggtggct gcgcactcng cctgagaaac tcggcaagcg cgcagtgtcg actccccggt      60
ctatgccagg cgcatctcag ctaatccaaa agtaaatgag aaacttagaa aaagattgcc      120
aattccaaat caacatattt agagaaaatt ggaaaaggag aagcttacta cagctttatt      180
tgaggacttt ttaaagaacg ctgggttcta tctgtgagct gcaaactctg gagcaaaaac      240
cagagacatt gccagagcaa acaagaacag aaatacaaat ggagaactgg tcaaaagaca      300
taaccacag ttatcttgaa caagaaacta cggggataaa taaaagtacg canccagatg      360
agcaactgac tatgaattct gagaaaagta tgcctcgaa atccactgaa ttagntaatg      420
aaataacatg ngagaacaca gaatggccag gggcagagat caacgaattt tcanatcatc      480
agttcttata cagatgatga gtctgtttac t                                     511

```

<210> 293  
<211> 526  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(526)  
<223> n = A,T,C or G

```

<400> 293
gataaaaaga actttaatgg aaggcactgt tgtccaaaat cacataaagg gtaagagccc      60
acacggtacc accctgctct cctacttctc aaaccacat ccaccacca gacaggaggg      120
tgcanacccc acaggaaatt acctcccga gcaactgact atatttttcc ttaaaacaaa      180
aaaatggctg tctcagacta ataacagaa atcttaagag ctataccagc tattacagcc      240
tggtaatana agcagctttc taanaattcc caagtttata anaggcccaa naaatgcatt      300
tattctgttg tctattaagc ctccatgaca aggagaaagt tatgagtaaa tccttggttc      360
atcaggagtt aagagctgtg ngcctcatga ggagttaana gctgtgtgca taagcaggtt      420
caagaacaaa actcctgttt gtttgctctt ttgatggttc aaaaacattc agctgctttc      480
acctctanga caaatgctt aaagaattta ctctcatcac cttggg                                     526

```

<210> 294  
<211> 601  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(601)  
<223> n = A,T,C or G

```

<400> 294
actttaaaag ccaaatatat ttttaaaaaga tcatgcttat aataagtaaa ttacncatta      60
aggaaacatc aaaataaagt agatgaataa aaaggcacac tcgaaaaatt tgagcgcaga      120
aaggacagtt ctttttgttt tgtttctaata gtcggaagaa aaagaaagag atatattaaa      180

```

```

atcattgttt tcaagtgaag gtttctgtca gttgaagtag ttagcaatgg cttcttttct 240
cccggtgtcca aagcaggctc ttctgctgct gacttctgag gagnggttca gtcctctgcc 300
atgtataggg gatacatcaa ggcgacggcc actgcagaga tggcagggat caccagttg 360
gtccaccaac tggaaactaga atcaatagta gtgataagag tttccggagg cttgtttaac 420
tttgggtctgt catctggatg gagctcccca atgatgaatg ttttggacat ttccctggca 480
tctgtagant gcccgacatc ctcaaagttc tcagtagcng tcacctccac ttgttccctt 540
aaaacttctt cccaccagg atgctcttcc agaaatttgg gncaaatcgn acaccttgtg 600
g 601

```

```

<210> 295
<211> 262
<212> DNA
<213> Homo sapien

```

```

<400> 295
cccttagccc caagggccct gggggcagcc accctcccgc ctgtcggccc gtagatttat 60
caaggggtgt atgggcccag ctttgggggg ccagtcccga tgcactttga ggggtgttgg 120
agaggggact cccccactcg cacttaactc aacggctctc ggccctggg gctgttttta 180
ccatgtttgt ttttgaagct caggtgtctc acgtctgggc tgcaccaggc gaagagagaa 240
attaaagatt tgaggttttt cc 262

```

```

<210> 296
<211> 598
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(598)
<223> n = A,T,C or G

```

```

<400> 296
gttagaacia ctcagcaaaa taaaattcct gtttattgtt ggacaacatt gtttcacaca 60
taccatcaaac aggcacaaaa aaataaacag caacttcata gacaaaaaag gaaaaaaaaa 120
gaaacctttt atctttggcc tttttaacca tctcatatac accaactact tatagtacag 180
ctaagtacat acacaaaaaa gttactggaa tgctcggaat aagattgttt ttctgttgct 240
atttttgctt tttttacaag gntttttttc tcttttgaga ttataatgaa catggncaca 300
ccacaagtaa agtcagaagt aggacagana acgctccgaa ggctggtttg gtcacccgan 360
atcattaaaa atggctgacc ctaacaatat gtacaaaaat ataaaatgta aataaaaaat 420
acaaacaaat ttctttttta aagtactttt aagaaaaaaa gcagggcctt ggaagttttg 480
gttctttttt cctcccctgt tgcaaatctc catgggtttg gttgggtggn gganancccc 540
tgtcatctgc ggggtggcact gcccggngg gcggggcgggc ctctctctcg aangngac 598

```

```

<210> 297
<211> 509
<212> DNA
<213> Homo sapien

```

```

<400> 297
agaacacagg tgtcgtgaaa actacccta aaagccaaaa tgggaaagga aaagactcat 60
atcaacattg tcgtcattgg acacgtagat tcgggcaagt ccaccactac tggccatctg 120
atctataaat gcgggtggcat cgacaaaaga accattgaaa aatttgagaa ggaggctgct 180
gagatgggaa agggctcctt caagtatgcc tgggtcttgg ataaactgaa agctgagcgt 240
gaacgtggta tcaccattga tatctccttg tggaatttgg agaccagcaa gtactatgtg 300

```



actatcattg	atgccccagg	acacagagac	tttatcaaaa	acatgattac	agggacatct	360
caggctgact	gtgctgtcct	gattgttgct	gctgggtgtg	gtgaatttga	agctggatc	420
tccaagaatg	ggcaggaccc	gagagcatgc	ccttctggct	tacacactgg	gtgtgaaaca	480
actaattgtc	ggtgttaaca	aatggatt				509

<210> 298  
 <211> 267  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(267)  
 <223> n = A,T,C or G

<400> 298						
gggacggggg	aaaggagacg	cttcttctc	ttgctgctct	tctcgttccc	gagatcagcg	60
gcggcggtga	ccgcgagtgg	gtcggcaccg	tctccggctc	cggngcnaa	caatgctgac	120
tgatagcgga	ggcggnggca	cctccttnna	ggaggacctg	gactctgtgg	ctccgcgac	180
cgccccagct	ggggcctcgg	agccgcctcc	gccgggaggg	gtcggctctg	ggatccncac	240
cgngaggctn	tttggggagg	gcgggcc				267

<210> 299  
 <211> 121  
 <212> DNA  
 <213> Homo sapien

<400> 299						
ggcacgagg	ccctcggagc	tcgtttccag	atcgaggtaa	gagggacttt	cttaaaggcc	60
tagtctatg	gatggggcgg	cggagggaat	tttttgagaa	ataaaatgaa	gctgcagtgt	120
a						121

<210> 300  
 <211> 533  
 <212> DNA  
 <213> Homo sapien

<400> 300						
aaggtgcaca	gtatttgatg	caggctgctg	gtcttggtcg	tatgaagcca	aacacacttg	60
tccttggtg	taagaaagat	tggttgcaag	cagatatgag	ggatgtggat	atgtatataa	120
acttatttca	tgatgctttt	gacatacaat	atggagtagt	ggttattcgc	ctaaaagaag	180
gtctggatat	atctcatctt	caaggacaag	aagaattatt	gtcatcacia	gagaaatctc	240
ctggcaccaa	ggatgtggtg	gtaagtgtgg	aatatagtaa	aaagtccgat	ttagataactt	300
ccaaaccact	cagtgaaaaa	ccaattacac	acaaagttga	ggaagaggat	ggcaagactg	360
caactcaacc	actgttgaag	aaagaatcca	aaggccctat	tgtgccttta	aatgtagctg	420
acaaaaagct	tcttgaagct	agtacacagt	ttcagaaaaa	acaaggaaa	aatactattg	480
atgtctggtg	gctttttgat	gatggagggt	tgaccttatt	gataccttac	ctt	533

<210> 301  
 <211> 560  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(560)  
 <223> n = A,T,C or G

<400> 301  
 ataaatgata cctttttattg taagtaatgc gcaacactgg cctggctttg cactgcaage 60  
 cctcgggtcaa gatatagtca aataactatg gctgcagggt ccacagttcc acaataacca 120  
 tggctgcacg atccacaatt cagacacaga catagagctg ggggtgggtgg aagggggcagg 180  
 aggggtggcag agtgccgact gtccccagcc ctggcctctc catgcanagt tggcccaggc 240  
 agacacaccc catggaatga tgagaaagtg acggcacggc cccttcccac agcaagcctg 300  
 gggctgccag gaactgccct tcanaacctt tgggcccagg tcnccctgaa nccccacaac 360  
 tttttatctg gaataagtat taaaaaacia taaattaagc aaacaacntg gnccttgaag 420  
 gatgttgacc nacatgggtcc acagtttttg gcncaaaaaa ataagggtctg gtttgctttt 480  
 tttggaaggc aggggtttgtg gnttggcttt caaatnattt tcaaacattt ccccaggagg 540  
 gganaaccccc cgggggggaa 560

<210> 302  
 <211> 599  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(599)  
 <223> n = A,T,C or G

<400> 302  
 gcaaagttac aaattttattg gtctggaaat aaatacaaat atctcattaa naaactcctc 60  
 tggaaagact tgtgcacaat agtttcccat ccgtactcag cctctcttgc cccgatcccc 120  
 gactttttcta ctcaaggcca ggggaaggcct ccaaggngat gggcggcagg taacgagtca 180  
 ttgcctctca cgccacctgg aaggtctggac tacttctctc tcccaactgc ggggtcccan 240  
 aaatcctcgg gtcccagnng ctgacttaca atattcaatt cactctgacc aaacttccta 300  
 tganaaaaac cacgngagc caaaatgaaa agtacaaggc agtagtacag gaacctggca 360  
 gccgcactgg ccgcccanaa acgtcagtgg ngctgcccc ttcggcgaaa ggtagggag 420  
 caggaaaaga ggaagcagga gagggaagga aagtcctatg gaatatgtat tccanaatcc 480  
 ttacattttc tcagccaccg ctccccacgt gagttccac cccaccccg acaagaagca 540  
 aagagttctg aggatccaag aacgtgaccg ggtcanacan gttcagctac tgagttcac 599

<210> 303  
 <211> 591  
 <212> DNA  
 <213> Homo sapien

<400> 303  
 cggagttgta acgtccact gactgataga ggcaccggcc gaccatggcg cccggagtgg 60  
 cccgcgggcc gacgcgtac tggaggttgc gcctcgggtg cgcgcgctg ctccgtctgc 120  
 tcatcccggt ggccgcgcg caggagcctc ccggagctgc ttgttctcag aacacaaaca 180  
 aaacctgtga agagtgcctg aagaacgtct cctgtctttg gtgcaacact aacaaggctt 240  
 gtctggacta ccagttaca agcgtcttgc caccggcttc cctttgtaaa ttgagctctg 300  
 cacgtctggg agtttgttgg gtgaactttg aggcgctgat catcaccatg tcggtagtctg 360  
 ggggaacctt cctcctgggc attgccatct gctgctgctg ctgctgcagg aggaagagga 420  
 gccggaagcc ggacaggagt gaggagaagg ccatgcgtga gcgggaggag aggcggatag 480  
 ggcaggagga acggagagca gagatgaaga caagacatga tgaaatcaga aaaaaatatg 540  
 gcctgtttta agaagaaaac ccgtatgcta gatttgaaaa caactaaagc g 591

<210> 304  
 <211> 441  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(441)  
 <223> n = A,T,C or G

<400> 304  
 gctggacgga gacctgctgg aggaggagga gctggaggaa gcagaggagg aggaccggtc 60  
 gtcgctgctg ctgctgtcgc cgcccgcggc caccgcctct cagacccagc agatcccagg 120  
 cgggtccctg gggctctgtg tgcctgccagc cgccagggtc gatgcccggg aggcggcggc 180  
 ggcggcgggg gtgctgtacg gaggggacga tgcccagggc atgatggcgg cgatgctgtc 240  
 ccacgcctac ggcccggcg gttgtggggc ggcggcggcc gccctgaacg gggagcaggc 300  
 ggccctgctc cggagaaaga gcgtaaacac caccgagtgc gtcccgggtc ccagctccga 360  
 gcacgtcgcc gagatcgctg gccgccaggg ttgtaaaatt aaagcactga nagccaagac 420  
 aaacacgtat atcaagactc c 441

<210> 305  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<400> 305  
 tcgccatgcc cccttcttag cactgcaccg ccagggtccat gctgctgccca cccagacct 60  
 gggctttgcc tgccacctct gtgggcagag ctcccgaggc tgggtggccc tggttctgca 120  
 tctgcgggcc cattcagctg caaagcggcc catcgcttgt cccaaatgcg agagacgctt 180  
 ctggcgacga aagcagcttc gagctcatct gcggcggtgc caccctcccg ccccgaggc 240  
 ccggcccttc atatgcggca actgtggcgg gagctttgcc cagtgggacc agctagtgtc 300  
 ccacaagcgg gtgcacgtag ctgaggccct ggaggaggcc gcagccaagg ctctggggcc 360  
 ccggcccagg ggccgccccg cggtgaccgc ccccgggccc ggtggagatg ccgtcgaccg 420  
 ccccttccag tctgcctgtt gtggcaagcg ctcccgccac aagcccaact tgatcgctca 480  
 cccgcgctg c 491

<210> 306  
 <211> 547  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(547)  
 <223> n = A,T,C or G

<400> 306  
 tctcttttctt ttaagacagg aatgtaagcc acaacattta caaataacaat gttttaactc 60  
 tctacatgta ggaagccaac ctgctccttt ttgatcttct tctttggcac aacctcagtg 120  
 gatttctctg attcagaacg agttctaatt gatcttctct gttgcttctt ttctactgag 180  
 cctgtagaac cagatgttgc ttcaggagat gatacactct gcgttggtct ttcatttctc 240  
 tggtttggtg tagaaattat aagcctgtct tgccccctga cacttatttc tgttttgta 300  
 ccaattccct ttgttgaata aacaaattga tcgataaatt tcccatcccc tgtagcattc 360

tgaagagcaa	acacttggtc	aattttcaca	actggagaca	tgttacactt	ctgcaaatcc	420
aggctccctt	tgtgcatccg	taatggaagc	tggttaaggat	ttccttgctg	ccgcagtttt	480
ccaggctatt	ttaacaggcg	gnggctcttc	ctctttccgc	acttgtgtgc	cgctctggc	540
tatgtct						547

<210> 307  
 <211> 571  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(571)  
 <223> n = A,T,C or G

<400> 307						
cgctgcatgt	gataatgtca	tcattttattt	ttaaattggtt	ctaaattgca	nattttaagtt	60
gattttcaaa	caaccctatt	tttaaattac	ttttaatagg	aanaaatgaa	gcaaggacat	120
acataatcta	ctatatattga	aggactcaaa	caaatacatg	tttggtctgtg	aattctgtac	180
tctcaccaaa	acagagataa	aaatccacct	aaaatacact	ttccttcatt	tagtgcttgt	240
ggganaaggt	caagtattgc	actttaaaaat	tactttcatc	taacatttgc	cccaactttc	300
cccctgaatt	cactatatgt	tttcagcaaa	catgatttta	taaattttta	gtataaaagc	360
aactaggttt	tctaattcaa	ctttggaagg	tttactttac	tctacanagc	tatttttgta	420
aaacggcata	tttacttaca	aaattganag	ataggggcat	ccagctgagg	tacatttcct	480
cccttggcgt	tgagtttctg	gacttgggtc	gggggcacag	gcttgtgtga	ctgccccgtg	540
gcccgatata	tggcctggac	cccaggatgc	g			571

<210> 308  
 <211> 591  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(591)  
 <223> n = A,T,C or G

<400> 308						
ctccttatgt	gtctgcctac	ttcattcttc	ggcatttcct	gcttatccaa	gttcaccatt	60
tcaggtcacc	actggatata	agttgcctgt	atataattat	caggcatttc	ctgcttatcc	120
aagttcacca	tttcagggtca	ccactggata	tcagttgcct	gtatataaatt	atcaggcatt	180
tcctgcttat	ccaagttcac	catttcagggt	caccactgga	tatcagttgc	ctgtatataa	240
ttatcaggca	tttctgctt	atccaagttc	accatttcag	gtcaccactg	gatatcagtt	300
gcctgtatat	aattatcagg	catttcctgc	ttatccaagt	tcaccatttc	aggtcaccac	360
tggatatcag	ttgcctgtat	ataattatca	ggcatttcct	gcttatccaa	gttcaccatt	420
tcaggtcacc	actggatata	agttgcctgt	atataattat	caggcatttc	ctgcttatcc	480
aaattcagca	gttcagggtca	ccactggata	tcagttccat	gtatacaatt	accagatgcc	540
accgcagtgc	cctgtttggg	gagcaaagga	gaaatntgtg	gaccgaagca	t	591

<210> 309  
 <211> 591  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 309

agggggtgca	cgtactccca	actgtgggtcg	cgtcttcacc	ccttctgctg	ctctcggtggc	60
ccccctcgga	tggcgggcat	cctgtttgag	gatattttcg	atgtgaagga	tattgaccgcg	120
gagggaaga	agtttgaccg	aggtaagtaa	gtgtctcgac	tgcattgtga	gagtgaatct	180
ttcaagatgg	atctaactct	agatgtaaac	attcaaat	accctgtaga	cttgggtgac	240
aagtttcggt	tggatcatagc	tagtaccttg	tatgaagatg	gtaccctgga	tgatggtgaa	300
tacaacccca	ctgatgatag	gccttcagg	gctgaccagt	ttgagtatgt	aatgtatgga	360
aaagtgtaca	ggattgaggg	agatgaaact	tctactgaag	cagcaacacg	cctgctgaga	420
ttgagagctg	ctgagtggca	gtgctccaga	atcacgggat	ggggccttct	gtttcagctc	480
tgcgtacgtg	tcctatgggg	gcctgctcat	gaggctgcag	ggggatgcc	acaacctgca	540
tggattcgag	gtggaactcca	gagtttatct	cctgatgaag	aagctagcct	t	591

&lt;210&gt; 310

&lt;211&gt; 488

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 310

tggctcgaag	cctgaagagg	ctccgcccac	aagctggccc	atgaagttag	caatgcctgt	60
ggcttcagtc	aattgtcttg	agactgtgaa	gaggctgaaa	gacaccttcc	cgggtggaag	120
aaggagttca	ctgaaaactt	atcttaaaact	gaccttccc	tttgagttag	tcttcattcc	180
tctcccatgt	gggaacccag	cctccgatgc	ccgggggact	aggggaaaca	gttggagggtc	240
cgtgccgtcc	ccagcctgcc	acgggtgcca	ggacagccaa	gtcctgagt	actcaagatg	300
cttcacttac	atggaagaaa	cttctaaaac	tctaccgagt	ggtttttgta	tatactaaag	360
ttctatttag	agcttttctg	ttttgggcaa	gttcgctgct	ccttctattt	gggcactttg	420
gtttttgtac	tgtcttttgt	gacggcattg	attgaacatt	ttttactagt	agtcttatga	480
cttttgta						488

&lt;210&gt; 311

&lt;211&gt; 511

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(511)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 311

cccgtttntg	nagcaaaaana	gggggaagat	ttataggttag	aggcgacaaa	cctaccgagc	60
ctgggtgatag	ctggttgtcc	aagatagaat	cttagttcaa	ctttaaattt	gcccacagaa	120
ccctctaaat	ccccttgtaa	atttaactgt	tagtccaaag	aggaaacagct	ctttggacac	180
taggaaaaaaa	ccttgtagag	agagtaaaaa	atttaacacc	catagtaggc	ctaaaagcag	240
ccaccaatta	agaaagcgtt	caagctcaac	accactacc	taaaaaatcc	caaacatata	300
actgaactcc	tcacacccaa	ttggaccaat	ctatcacctt	atagaagaac	taatgttagt	360
ataagtaaca	tgaaaacatt	ctcctccgca	taagcctgcg	tcagattaaa	acactgaact	420
gacaattaac	agcccaatat	ctacaatcaa	ccaacaagtc	attattacc	tcactgtcaa	480
cccaacacag	gcatgctcat	aaggaaaggt	t			511

&lt;210&gt; 312

&lt;211&gt; 591

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

```

<400> 312
gaacttgctg tgaaggaagc agaaactgat gaaataaaaa ttttgctgga agaaagcaga      60
gcccagcaga aggagacctt gaaatctctt cttgaacaag agacagaaaa ttgagaaca      120
gaaattagta aactcaacca aaagattcag gataataatg aaaattatca ggtgggctta      180
gcagagctaa gaactttaat gacaattgaa aaagatcagt gtatttccga gttaattagt      240
agacatgaag aagaatctaa tatacttaaa gctgaattaa acaaagtaac atctttgcat      300
aaccaagcat ttgaaataga aaaaaaccta aaagaacaaa taattgaact gcagagtaaa      360
ttggattcag aattgagtgc tcttgaaaga caaaaagatg aaaaaattac ccaacaagaa      420
gagaaatacg aagctattat ccagaacctt gagaaagaca gacaaaaatt ggtcagcagc      480
caggagcaag acagagaaca gttaattcag aagcttaatt gtgaaaaaga tgaagctatt      540
cagactgccc taaaagaatt taaattggag agagaagttg ttgagaaaga g      591

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```

<210> 313
<211> 373
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(373)
<223> n = A,T,C or G

```

```

<400> 313
ttgatTTTTA ttctgnattt tattactgaa atangttgtc ctantnatcc cccccacaa      60
taaaaatntn acccangccc ccnntttctt tncctnatnc cctnttccac cacaccatcc      120
cggaacaagt gctccaggat tccctgccca ctggccattt tggagtgtgn ccattgggta      180
gcaatgtgga aaccaccaag gcctttgttg anaaaatgga ggggggttgag ggagncctan      240
gaggggctna tttgagggcc tttgccactt gctcataggc gagctcnatc tcctcntnat      300
ctgnacangt ggaagcaaat tcttcccgga cgtnggnant gctnaagnac cgatgcactc      360
cccgggaaggn ctn      373

```

```

<210> 314
<211> 591
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(591)
<223> n = A,T,C or G

```

```

<400> 314
cccggtgccg cgccgcctcc tgggaagaga ggaagcgga gaggagccca cgtcgctgt      60
cacccaatat ctccagccgc gcagtccga agagtgtgag atgttcgcct gcgccaagct      120
cgctgcacc ccctctctga tccagagctg atccagagtt gcatacagac caatttctgc      180
atcagtgtta tctcgaccag aggctagtag gactggagag ggctctacgg tatttaattg      240
ggcccagaat ggtgtgtctc agctaataca aaggaggttt cagaccagtg caatcagcag      300
agacattgat actgctgcca aatttattgg tgcaggtgct gcaacagtag gagtggctgg      360
ttctggtgct gttattggaa cagtctttgg cagccttata atttggttat ccagaaaccc      420
ttcgctgaag cagcagctgt tctcatatgc tatcctggga tttgccttgt ctgaagctat      480
gggtctcttt tgtttgatgg ttgctttctt gattttgttt gccatgtaac aaattactgc      540
ttgacatgtt ggcatccta ttaattaacg atgtaattct gtgtatctta c      591

```

```

<210> 315

```

<211> 591  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(591)  
 <223> n = A,T,C or G

<400> 315

aagcccttca	ccaacaaaga	tgcctatact	tgtgcaaatt	gcagtgcctt	tgtccacaaa	60
ggctgccgag	aaagtctagc	ctcctgtgca	aaggtcaaaa	tgaagcagcc	caaagggagc	120
cttcaggcac	atgacacatc	atcactgccc	acggtcatta	tgagaaacaa	gccctcacag	180
cccaaggagc	gtcctcggtc	cgcagtcctc	ctgggtgatg	aaaccgctac	cacccaata	240
tttgccaata	gacgatccca	gcagagtgtc	tcgctctcca	aaagtgtctc	catacagaac	300
attactggag	ttggcaatga	tgagaacatg	tcaaacacct	ggaaattcct	gtctcattca	360
acagactcac	taaaataaat	cagcaaggtc	aatgagtcaa	cagaatcact	tactgatgag	420
ggtagacaga	tgaatgaagg	acaactactg	ggagactttg	agattgagtc	caaacagctg	480
gaagcagagt	cttggagtcg	gataatagac	agcaagtttc	taaaacagcc	aaaagaaaga	540
tgtgggtcaa	acngcgagaa	gtaatatatg	agttggatgc	agacagagtt	t	591

<210> 316  
 <211> 591  
 <212> DNA  
 <213> Homo sapien

<400> 316

gtttttataa	gaataaaaatt	ccattcaagc	cagatgggtg	ttacattgaa	gaagttctaa	60
gtaaatggaa	aggagattat	gaaaaactgg	agcacaacca	cacttacatt	caatggcctt	120
tccccctgag	agaacaaggc	ttgaacttct	atgccaaaga	actaactaca	tatgaaattg	180
aggaattcaa	aaaaacaaaa	gaagcaatta	gaagattcct	cctggccttat	aaaatgatgc	240
tagaattttt	tgaataaaaa	ctgactgata	aaactggaaa	tgttgctcgg	gctgttaact	300
ggcaggaaaag	atttcagcat	ctgaatgagt	cccagcacia	ctatttaaga	atcactcgta	360
ttcttaaaaag	ccttgggtgag	cttggatatg	aaagttttta	atctcctctt	gtaaaattta	420
ttcttcatga	agctcttggtg	gagaataacta	ttcccaatat	taagcagagt	gctctagagt	480
attttgttta	tacaattaga	gacagaagag	aaaggagaaa	gctcctgcgg	ttcgcccaga	540
aacactacac	gccttcagag	aactttatct	ggggaccgcg	ctcgaaaaga	a	591

<210> 317  
 <211> 323  
 <212> DNA  
 <213> Homo sapien

<400> 317

ccaagctacg	gaagcaagtg	gaagagattt	ttaatttgaa	atttgctcaa	gctcttgac	60
tcaccgaggc	agtaaaaagta	ccatatcctg	tgtttgaaac	aaaccggag	ttcttctatg	120
tggaaggctt	gccagagggg	attcccttcc	gaagccctac	ctggtttgga	attccacgac	180
ttgaaaggat	cgtccacggg	agtaataaaa	tcaagtctgt	tgtaaaaaaa	cctgaactag	240
ttatttccta	cttgctcctc	gggatggcta	gtaaaataaa	cactaaagct	ttgcagtccc	300
ccaaaagacc	acgaagtcct	ggg				323

<210> 318  
 <211> 591  
 <212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(591)

<223> n = A,T,C or G

<400> 318

gatggcgctac	ttggcttgga	gactggcgcg	gcgttcgtgt	ccgagttctc	tgcaggtcac	60
tagtttcccg	gtagttcagc	tgcacatgaa	tagaacagca	atgagagcca	gtcagaagga	120
ctttgaaaat	tcaatgaatc	aagtgaaact	cttgaaaaag	gatccaggaa	acgaagtga	180
gctaaaactc	tacgcgctat	ataagcaggc	caactgaagga	ccttgtaaca	tgcccaaacc	240
aggtgtat	gaactgatca	acaaggccaa	atgggacgca	tggaaatgcc	ttggcagcct	300
gcccaggaa	gctgccaggc	agaactatgt	ggatttgggt	tccagtttga	gtccttcatt	360
ggaatcctct	agtcagggtg	agcctggaac	agacaggaaa	tcaactgggt	ttgaaactct	420
ggtggtgacc	tccgaagatg	gcatcacaaa	gatcatgttc	aaccggccca	aaaagaaaaa	480
tgccataaac	actgagatgt	atcatgaaat	tatgcgtgca	cttaaagctg	ccagcaanga	540
tgactcaatc	atcacttgtt	ttaacaggaa	atggtgacta	ttacagtagn	g	591

<210> 319

<211> 591

<212> DNA

<213> Homo sapien

<400> 319

gaattcggca	cgagggttgc	gctaagcgaa	cgcccttttg	agcttacgga	ggcctttctga	60
aagacttcac	tgctactgac	ttgtctgaat	ttgctgccaa	ggctgccttg	tctgctggca	120
aagtctcacc	tgaaacagtt	gacagtgtga	ttatgggcaa	tgtcctgcag	agttcttcag	180
atgctatata	tttggcaagg	catgttggtt	tgctgtgtgg	aatcccaaag	gagacccag	240
ctctcacgat	taataggctc	tgtggttctg	gttttcagtc	cattgtgaat	ggatgtcagg	300
aaatttgtgt	taaagaagct	gaagtgtttt	tatgtggagg	aaccgaaagc	atgagccaag	360
ctccctactg	tgtcagaaat	gtgcgttttt	gaaccaagct	tggatcagat	atcaagctgg	420
aagattcttt	atgggtatca	taaacagatc	agcatgtcca	gctcccatg	gcaatgactg	480
cagagaatct	tgctgtaaaa	cacaaaataa	gcagagaaga	atgtgacaaa	tatgccctgc	540
agtcacagca	gagatggaaa	gctgctaata	atgctggcta	ctttaatgat	g	591

<210> 320

<211> 591

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(591)

<223> n = A,T,C or G

<400> 320

ggctccggcg	tctgcagggg	tcgccgagct	aaccogtggc	taggcgagtg	gggcggggcg	60
gccggcacca	tgctcaggga	ggcgaaaccgt	ggcaccgaga	gcaagaaaaat	gagctctgag	120
ctcttcaccc	tgacctatgg	tgccctggtc	accagctat	gtaaggacta	tgaaaatgat	180
gaagatgtga	ataaacagct	ggacaaaatg	ggctttaaca	ttggagtccg	gctgattgaa	240
gatttcttgg	ctcgggtcaa	tggtgggagg	tgccatgact	ttcgggaaac	tgccgatgtc	300
attgccaaag	tggcgttcaa	gatgtacttg	ggcatcactc	caagcattac	taattggagc	360
ccagctgggtg	atgaattctc	cctcattttg	gaaaataacc	ccttggtgga	ctttgtggaa	420



```

cttcctgata accactcatc ccttatttat tccaatctct tgtgtggggg gttgcgggga 480
gctttggaga tgggccagat ggctngngga ggcccaagtt tgtccaggac accctnaaag 540
gagacgggng tgacagaaat ccggatgaga ttcacaggc ggattganga c 591

```

```

<210> 321
<211> 260
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(260)
<223> n = A,T,C or G

```

```

<400> 321
ctgcttggt ccacacgtgg gccgccgtag gtattccgac cggtaatcc tcctattggt 60
gtgcagcagc cacattgaag gatagagtgg cagcagaggc caaggatcgt gagttgatgg 120
agtttgctgc tgaaaatgaa gggaagtctg ggggaggtct ccacagcgta gctgaggggg 180
tgccgctaag tccagagcct ggcagggagg gagtaaggga cttagcaggg gcggaggagt 240
tctgcggngg anaggagggg 260

```

```

<210> 322
<211> 559
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(559)
<223> n = A,T,C or G

```

```

<400> 322
ttccacatga catggagtgt gaagctggat gagcacatca ttccactggg aagcatggca 60
nttaacagca tctcaaaaact gactnanctc acccagtctt ccatgtattc acttcctaata 120
gcacccactc tggcanacct gnaggacnat acacatgaag ncantgatga tcagccagan 180
aancctcact ttgactctcg canngtgata tttgagctgg attcatgcaa tggnagtggg 240
aaagtttgcc ttgtctacaa aagtgggaaa ccagnattag cagaanacac tgagatctgg 300
ttcctgnaca nancgttata ctggcatttt ctacacanaca cctttactgc ctattaccgc 360
ctgctcatca cccacctggg cctgccccag tggcaatatg ccttcccagc tatggcatta 420
gccacaggc caagcaatgg ttcagcatgt ataaacctat cacctacaac acaaacctgc 480
tcacagaaga naccgactcc tttgtgaata agctagatcc canctnagtg ttttaagagca 540
agaacaagat cgttatccc 559

```

```

<210> 323
<211> 492
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(492)
<223> n = A,T,C or G

```

```

<400> 323

```

```

cctgtctccc agccgtacca gcgagggtc ggccggcagc gccgggctgg ggggcggcgg      60
cgccggcgcc ggagccgggg tgggtgcagg cgccggcggg ggcagcgcg cgagcagcgg      120
cgccggggcc ggggggctgc aaccagcag ccgcgctggc ggcggccggc cctccagccc      180
cagcccgtcg gtggtgagcg agaaggagaa ggaagagttg gagcggtgc agaaagagga      240
ggaggagagg aagaagaggc tgcagctgta tgtgttcgtg atgcgctgca tcgcctaccc      300
ctttaatgcc aagcagccca ccgacatggc tcgccggcag cagaagatca gcaaacagca      360
gctgcagaca gtcaaggacc ggtttcaggc ttccctcaat ggggaaaccc anacatggc      420
tgacgaagcc ttcatagaacc gctgtngcag agttactatg aggtgttcct gaagaccacc      480
cgtgtggccg ca                                     492

```

```

<210> 324
<211> 474
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(474)
<223> n = A,T,C or G

```

```

<400> 324
aatttcagca acatacttct caatttcttc aggatttaaa atcttgaggg attgatctcg      60
cctcatgaca gcaagttcaa tgtttttgcc acctgactga accacttcca ggagtgcctt      120
gatcaccagc ttaatggtea natcatctgt ttcaatggct tcgtcagtat agttcttctc      180
cagnaactca cgcactgact tggcaccocg gcctatggca ttggccttcc aggcattgta      240
tgtgcccag gggtcagtct gatagagcct aggagtgcc tcaaagtcga aaccacagat      300
gagggcagag atgccaaaac gcctgcgccc attgctctgc gtataacgct gcttcanact      360
ggcgatgtag cgggtgatgt actccacagt gaccgggtcc tccacagtca gccggtggct      420
ctggcactcc acccgggccc tgttgatgac tatccttgca tcggcggtga ggcc          474

```

```

<210> 325
<211> 532
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(532)
<223> n = A,T,C or G

```

```

<400> 325
gaggagacag gacagagcgt ctggagagggc aggaggacac cgagttcccc gtgttggcct      60
ccaggtcctg tgcttgccga gccgtccggc ggctgggacg gagccccgac aatgggcaac      120
gcgcaggagc ggccgtcaga gactatcgac cgcgagcgga aacgcctggc cgagacgctg      180
caggcggact cgggactgct gttggacgog ctgctggcgc ggggctgtgt caccgggcca      240
gagtacgagg cattggatgc actgcctgat gccgagcgca ggggtgcgocg cctactgctg      300
ctggtgcagg gcaagggcga ggccgcctgc caggagctgc tacgctgtgc ccagcgtacc      360
gcgggcgcgc cggacccgcg ttgggactgg cagcacgtgg gtccgggcta ccgggaccgc      420
agctatgacc ctccatgccc aggccactgg acgcgggagg caccgggctc ggggaccaca      480
tgccccgggt tgcccagact tcagaccctg acgaggncgg gggccctgag gg          532

```

```

<210> 326
<211> 322
<212> DNA

```

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(322)

<223> n = A,T,C or G

<400> 326

caaaattaac	atTTTTtatta	aatcaagtta	aaaaaaatgt	tcagtgtana	aaagtcaaca	60
agggttttaa	caaaacccaaa	atataccttt	ttatacaata	tatgtatata	ttagcagcaa	120
actacttctg	anattctctt	tcttttatgt	tcttctagtt	attttaaaga	aagcataaac	180
aatgtatatt	agtatggaat	gtcagcaaat	ccactcttag	tcctttattc	tgtgatttgg	240
gccttctaca	aaatactttg	tgattctcac	taatgaatat	taagaacata	cccaatttta	300
actaaaaagt	agtgaacag	tg				322

<210> 327

<211> 387

<212> DNA

<213> Homo sapien

<400> 327

aaaaccgtgt	actattagcc	atgggtcaacc	ccaccgtggt	cttcgacatt	gccgtcgacg	60
gcgagccctt	gggccgcgtc	tcctttgagc	tgtttgcaga	caaggtccca	aagacagcag	120
aaaattttcg	tgctctgagc	actggagaga	aaggatttgg	ttataagggg	tcctgctttc	180
acagaattat	tccagggttt	atgtgtcagg	gtgggtgactt	cacacgccat	aatggcactg	240
gtggcaagtc	catctatggg	gagaaatttg	aagatgagaa	cttcaccta	aagcatacgg	300
gtcctggcat	cttgtccatg	gcaaagtctg	gacccaacac	aaatggttcc	cagtttttca	360
tctgcactgc	caagactgag	tggttgg				387

<210> 328

<211> 502

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(502)

<223> n = A,T,C or G

<400> 328

agcagcccgg	cgcgcccgcc	gcgcccggcg	gcggcaaggc	tccggggccag	catgggggct	60
tcgtgggtgac	tgtcaagcaa	gagcgcgcg	agggtccacg	cgcgggcgag	aaggggtccc	120
acgaggagga	gccggtgaag	aaacgcggt	ggcccaaggg	caagaagcgg	aagaagattc	180
tgccgaatgg	gcccaaggca	ccggtcacgg	gctacgtgcg	cttcctgaac	gagcggcgcg	240
agcagatccg	cacgcgccac	ccgatctgc	cctttcccg	gatcaccaag	atgctgggcg	300
ccgagtggag	caagctgcag	ccaacggaaa	agcagcggta	cctggatgag	gccnagagag	360
agaagcagca	gtacatgaag	gagctgcggg	cgtaccagca	gtctgaagcc	tataagatgt	420
gcacggagaa	gatccaggag	aagaagatca	agaaagaaga	ctcgagctct	gggctcatga	480
acactcttct	gaatggacac	aa				502

<210> 329

<211> 463

<212> DNA

<213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(463)  
 <223> n = A,T,C or G

<400> 329  
 caagttgcac attttaattt acaattttta ccaataaaaa ggattagttt acaaaaaagg 60  
 aagtccttta tacaaaaataa ggacaatttg taaaganaat ccactgtcat gttttgcctt 120  
 gtcaagtcaa aactcaaata gcttggtttg gtaaaattat tccagaaaca taatccagac 180  
 aaaatcaata acgtcatcag cttcctaacc atgtttaana ggaataactt catgaacatt 240  
 ttgccctgaa ctgaanagtt ctaaataactt gtaaaccttt aggaaaaaat gactgctcgc 300  
 aggcagcttg actggtgaaga ggggtacacca nagactccgg gtcactcact gtcagaatat 360  
 tcttatacat acaatgagtc tccacgcctg tacaatgagt gtcgtgcaac ataattggag 420  
 taatggcctc taaaatttta caagtaaact ttattgnggc ccc 463

<210> 330  
 <211> 500  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(500)  
 <223> n = A,T,C or G

<400> 330  
 taattataga tctacaaaaat atgaaatgta ttccaagaat gcagaaaaac catctagaag 60  
 caaaaggact ataaaaacaaa aacagagaag aaaattcatg gctaaaccag ctgaagaaca 120  
 gcttgatgtg ggacagtcta aagatgaaaa catacatata tcacatatta cccaagacga 180  
 atttcaaaga aattcagaca gaaatatgga agagcatgaa gagatgggaa atgatttgtt 240  
 ttccaaaaaa acagatgccca cctgtgggaa gcaagaaaaag tagcactaga aaagataagg 300  
 aagaatctaa aaagaagcgc ttttccagtg agtccaagaa caaacttgn cctgaagaag 360  
 tgacttcaac tgtcacgaaa agtcgaanaa tttccangcg tccatctgat tgggtgggtgg 420  
 taaaancaga ggagagtcct gtttatagca attcttcagt aagaaatgaa ttaccaantg 480  
 catcacaatn ntgcccgga 500

<210> 331  
 <211> 494  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(494)  
 <223> n = A,T,C or G

<400> 331  
 tctctctctc tctcaaaatt acagtgttca ttgtcattga cctcagcagc aaatttgact 60  
 tgaattcact taggatcgca ggaatcaggg gaaagtgatt tttaaagggtg tttctccagc 120  
 acatttttaag aaaagggacc aaaagttatt ttagcttcct caatagattg catgttgctt 180  
 attaggataa taaattaata ttaaattgcaa tatatgtctt gncctttatta tggcatctat 240  
 ttaggagttg ttcaaatcac tgcagtaggg ctctgcaaat aaaataatgn aacctattat 300  
 catggatcta atgnactgna actttatcag tgaaaggnaa aatctcaaat aacaagtaca 360

```

aacattggac aattacctat aaagatttgt aaaaggaaaa tttttccata gatttcattc 420
ttggcatttt gtaaagacga ccttgcagnc cctgtttgn aactttttta ataaaataga 480
catctgttta cttg 494

```

```

<210> 332
<211> 538
<212> DNA
<213> Homo sapien

```

```

<400> 332
aaagaacaaa tggaaacgca tgggtgttct gaacaagagt ctcaaccgtg tgcatttatt 60
gggataggaa atagtgaacca agaaatgcag cagctaaact tggaggaaa gaactattgc 120
acagccaaaa cattgtatat atctgactca gacaagcgaa agcacttcat gttgtctgta 180
aagatgttct atggcaacag tgatgacatt ggtgtgttcc tcagcaagcg gataaaagtc 240
atctccaaac cttccaaaaa gaagcagtca ttgaaaaatg ctgacttatg cattgcctca 300
ggaacaaagg tggctctgtt taatcgacta cgatcccaga cagttagtac cagatacttg 360
catgtagaag gaggttaattt tcatgccagt tcacagcagt ggggagcctt ttttattcat 420
ctcttggatg atgatgaatc agaaggagaa gaattcacag tccgagatgg ctacatccat 480
tatggacaaa cagtcaaact tgtgtgctca gttactggca tggcactccc aagattga 538

```

```

<210> 333
<211> 499
<212> DNA
<213> Homo sapien

```

```

<400> 333
ctcagcctgc gggactgctc ggctcggctt ctaggcgggt ttgatgaaca cctggcttta 60
ttcttgcaat gaagaaagggt tctcaacaaa aaatattctc caaagcaaag ataccatcat 120
catctcactc tcttatccca tcatctatgt ccaatatgag atctaggta ctttcacctt 180
tgattggatc agagactcta ccttttcatt ctggaggaca gtggtgtgag caagttgaga 240
ttgcagatga aaacaatatg cttttggact atcaagacca taaaggagct gattcacatg 300
caggagttag atatatatac gaggccctca ttaaaaaact tactaaacag gataatttgg 360
ctttgataaa atctctgaac ctttcacttt ctaaagacgg tggcaagaaa ttttaagtata 420
ttgagaattt ggaaaaatgt gttaaacttg aagtactgaa tctcagctat aatctaatag 480
ggaagattga aaagtcgga 499

```

```

<210> 334
<211> 561
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(561)
<223> n = A,T,C or G

```

```

<400> 334
ttcccggtag ttcagctgca catgaataga acagcaatga gagccagtca gaaggacttt 60
gaaaattcaa tgaatcaagt gaaactcttg aaaaaggatc caggaaacga agtgaagcta 120
aaactctacg cgctatataa gcaggccact gaaggacctt gtaacatgcc caaaccaggt 180
gtatttgact tgatcaacaa ggccaaatgg gacgcattga atgcccttgg cagcctgccc 240
aaggaagctg ccaggcagaa ctatgtggat ttggtgtcca gtttgagtcc ttcattggaa 300
tctctagtc aggtggagcc tggaaacagac aggaaatcaa ctggggttga aactctgggtg 360
gtgacctccg aagatggcat cacaaagatc atgttcaacc cggcccaaaa agaaaaatgc 420

```

```
cataaacact gagatgtatc atgaaattat gcgtagcatt aaagctgcc a gcaaggatga 480
ctcaatcacc actgttttaa cangaaatgg tgactattac agtagtgga atgatctgac 540
taacttctct gatattcccc c 561
```

```
<210> 335
<211> 551
<212> DNA
<213> Homo sapien
```

```
<400> 335
aagctgggtca tggctgggga gaccaccaac tcccgcggcc agcgggtgcc ccagaaggga 60
gacgtggaga tgctgtgcgg cgggcccggc tgccagggtc tcagcggcat gaaccgcttc 120
aattcgcgca cctactccaa gttcaaaaac tctctggtgg ttctcttctc cagctactgc 180
gactactacc ggccccggtt ctctctcctg gagaatgtca ggaactttgt ctcttcaag 240
cgctccatgg tctgaagct caccctccgc tgcctggtcc gcatgggcta tcagtgcacc 300
ttcggcgtgc tgcaggccgg tcagtacggc gtggcccaga ctaggaggcg ggccatcacc 360
ctggccgcgg cccctggaga gaagctccct ctgttcccgg agccactgca cgtgtttgct 420
ccccgggcct gccagctgag cgtggtgggt ggatgacaag aagtttgtga gcaacataac 480
caggttgagc tcgggtcctt tccggaccat acggtgcgag aaacgatgtc cgacctgccg 540
gaagtgcgga a 551
```

```
<210> 336
<211> 540
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(540)
<223> n = A,T,C or G
```

```
<400> 336
aggtctatgt ctactgaagg caataaacga ggaatgatcc agcttattgt tgcaaggaga 60
ataagcaagt gcaatgagct gaagtcaact gggagcccc ctggacctga gctgcccatt 120
gaaacagcgt tggatgatag agaacgaaga atttcccatt cctctacag tgggattgag 180
gggcttgatg aatcgcccag cagaaatgct gccctcagta ggataatggg taaataccag 240
ctgtccccta cagtgaatat gcccgaagat gacactgtca ttatagaaga tgacagggtg 300
ccagtgttc ctccacatct ctctgaccag tctcttcca gctcccatga tgatgtgggg 360
tttgtgacgg cagatgctgg tacttggggc aaggctgcaa tcagtgattc agccgactgc 420
tctttgagtc cagatgttga tccagttctt gcttttcaac gaaaaaggat ttggacgtca 480
gaagtatgtc agaaaaacgc accaaagcaa ttttcanatg ccagtcaatt ggatttcggt 540
```

```
<210> 337
<211> 422
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(422)
<223> n = A,T,C or G
```

```
<400> 337
gcagcaggaa cagttacagc agcagcagca acagcagctg ttgcaacagc agcaggaaca 60
```

```

attgcagcag caacaactgc agcctcctcc cctggagccc gaggaggagg aagaggtgga      120
gctggagctc atgccggtgg acctggggtc agagcaggag ctggagcagc agcggcagga      180
gttggagcgg cagcaggagc tggaacggca gcaggagcag cggcagctgc agctcaaact      240
gcaggaggag ctgcagcagc tggagcaaca gctggagcag cagcagcagc agctggagca      300
gcaggaggtg cagctggagc tgaccccggt ggagctaggc gccagcagc aggaggtgca      360
gctggagctg acccccgtgc agccggagct gcagctggaa ctggtgccan cccagggggc      420
gg                                           422

```

```

<210> 338
<211> 601
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(601)
<223> n = A,T,C or G

```

```

<400> 338
catcttacga acgctctatg atgtcttatg agcggctctat gatgtcccct atggctgaac      60
gctctatgat gtcagcctac gagcgctcta tgatgtcagc ctacgagcgc tctatgatgt      120
cccctatggc tgagcgctct atgatgtcag cttatgaacg ctccatgatg tcagcttatg      180
aacgctccat gatgtcccca atggctgacg gatctatgat gtccatgggt gctgaccggg      240
ctatgatgtc gtcatactct gctgctgacc ggtctatgat gtcacgtac tctgcagctg      300
accgatctat gatgtcatct tatactgctg atcgttcaat gatgtctatg gctgctgatt      360
cttacaccga ttcttacact gacacatata cagaggcata tatggtgcc a ctttgctc      420
ctgaagagcc cccaacaatg ccaccgttgc cacctgagga gccaccaatg acaccacat      480
tgccctnctga ggaaccaccc agaggggtcca gcattgccca cttgagcagt cagcattaac      540
cagcttga aa atacttg gcc ctacanangg tgccatcatt accatctgaa gagctgtatc      600
g                                           601

```

```

<210> 339
<211> 440
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(440)
<223> n = A,T,C or G

```

```

<400> 339
agagggagga ggcccaactg gtgatgctgc tgctgctgct gctgccgccc ccgccgctc      60
tattgctgat actctagtgg ggctggaagg gtggttcccta ttgcgaccat cgccaaccag      120
agacagaggg aaaaaaaaaa ccggcagcca ctgctgatgt tgggttcgga ggctgcatcc      180
gactcgggtca caaggaaaat ggattcagtt tgcactctct cctcctttaa acagcttctc      240
cgggtctcag catggtatca aagcttgaaa gagagaagac tcaagaagcg aagaggattc      300
gtgagctgga gcagcgcaag cacacggtgc tggtgacaga actcaaagcc aagctccatg      360
aggagaagat gaaggagctg caggctgtga gggagaacct tatcaagcag cagcacagga      420
aatgtcaang acggtgaagg                                           440

```

```

<210> 340
<211> 450
<212> DNA

```

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(450)

<223> n = A,T,C or G

<400> 340

gatttccagg	ggcggatatt	gagtgtcgac	ccagaggaag	aaagggagga	gggcccgcct	60
aggattcctc	aggccgacca	gtggaagtct	tcaaacaaga	gcctggtgga	ggctctgggg	120
ctggaagcog	aggggtgcagt	tcctgagaca	cagactttga	ccggatggag	taaggggttc	180
attggcatgc	acagggaaat	gcaagtcaac	cccatttcaa	agcggatggg	gcccattgact	240
gtggtcagga	tggacgcttc	agtccagcca	ggcccttttc	ggaccctgct	ccagtttctt	300
tatacgggac	aactggatga	aaaggaaaag	gatttggtgg	gcctggctca	gacgcagag	360
gtcctcgaga	tgttcgattt	gaggatgatg	gtggaaaaca	tcatgaacaa	ggaagccttc	420
atgaaccagg	agattacgaa	nncctttcac				450

<210> 341

<211> 451

<212> DNA

<213> Homo sapien

<400> 341

aacagctatt	aaaacagaaa	atggatgaac	ttcataagaa	gttgcatcag	gtggtggaga	60
catcccatga	ggatctgccc	gcttcccagg	aaaggtccga	ggttaatcca	gcacgtatgg	120
ggccaagtgt	aggctcccag	caggaactga	gagcgccatg	tcttccagta	acctatcagc	180
agacaccagt	gaacatggaa	aagaacccaa	gagaggcacc	tcctgttggt	cctccttttg	240
caaatgctat	ttctgcagct	ttggtgtccc	cagccaccag	ccagagcatt	gctcctcctg	300
ttcctttgaa	agcccagaca	gtaacagact	ccatgtttgc	agtggccagc	aaagatgctg	360
gatgtgtgaa	taagagtact	catgaattca	agccacagag	tggagcagag	atcaaagaag	420
ggtgtgaaac	acataagggt	gccaacacaa	g			451

<210> 342

<211> 498

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 342

ctcaagcagg	ctattgaaga	ggaaggaggc	gatccagata	atattgaatt	aactgtttca	60
actgatactc	caaacaagaa	accaactaaa	ggcaaaggta	aaaaacatga	agcagatgag	120
ttgagtggag	atgcttctgt	gggaagatga	tgctttttatc	aaggactgtg	aattggagaa	180
tcaagaggca	catgagcaag	atggaaatga	tgaactaaag	gactctgaag	aatttggtga	240
aaatgaagaa	gaaaatgtgc	attccaagga	gttactctct	gcagaagaaa	acaagagagc	300
tcatgaatta	atagaggcag	aaggaataga	agatatagaa	aaagaggaca	tcgaaagtca	360
ggaaattgaa	gctcaagaag	gtgaagatga	tacctttcta	acagcccaag	atggtgagga	420
agaagaaaat	gagaaagata	tagcaggggt	ctggtgatgg	cncacaagaa	gtatntaaac	480
ctcttccttc	aaaaaggg					498

<210> 343



<211> 491  
 <212> DNA  
 <213> Homo sapien

<400> 343  
 ccgaccccta ctcggcggcg caactccaca accagtagcg ccccatgaat atgaacatgg 60  
 gtatgaacat ggcagcagcc gcggccacc accaccacca ccaccaccac caccgccgtg 120  
 cctttttccg ctatatgcgg cagcagtgca tcaagcagga gctaattctgc aagtggatcg 180  
 accccgagca actgagcaat cccaagaaga gctgcaacaa aactttcagc accatgcacg 240  
 agctgggtgac acacgtctcg gtggagcagc tcggcggccc ggagcagagc aaccacgtct 300  
 gcttctggga ggagtgtccg cgcgagggca agcccttcaa ggccaaatac aaactgggtca 360  
 accacatccg cgtgcacaca ggcgagaaac ccttcctgc ccttcgggt gtggcaaagt 420  
 cttcgcgcgc tccgagaacc tcaagatcca caaaggacc acacaggga gaagccgtcc 480  
 agtggagttg a 491

<210> 344  
 <211> 412  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(412)  
 <223> n = A,T,C or G

<400> 344  
 gtgcgtgtc ttcccgttg cgtcaggga cgtcccgact cagtggccgc catggcatca 60  
 gatgaaggca aactttttgt tggagggctg agttttgaca ccaatgagca gtcgctggag 120  
 caggtcttct caaagtacgg acagatctct gaagtgggtg ttgtgaaaga caggagagacc 180  
 cagagatctc ggggattttg gtttgtcacc ttgagaaca ttgacgacgc taaggatgcc 240  
 atgatggcca tgaatgggaa gtctgtatag ggacggcaga tccgagtaga ccaggcaggc 300  
 aagtcgtcan acaaccgatc ccgtgggtac cgtgggtggt cgtccggggg ccggggcttc 360  
 ttccgtgggg gcccgangac ggggcccgtg ggttctctaa aagaagaggg ga 412

<210> 345  
 <211> 498  
 <212> DNA  
 <213> Homo sapien

<400> 345  
 aactagtctc gggccatcct ttctgcgcac ccggtgtcgc tgggctgcac cccgggcggg 60  
 gacgtccgcc gggcacggga gggggccaag atgccgatca ataaatcaga gaagccagaa 120  
 agctgcgata atgtgaaggt tgttgttagg tgccggcccc tcaatgagag agagaaatca 180  
 atgtgctaca aacaggctgt cagtgtggat gagatgaggg gaactatcac tgtacataag 240  
 actgattctt ccaatgaacc tccaaagaca tttacttttg atactgtttt tggaccagag 300  
 agtaaaacaac ttgatgttta taacttaact gcaagacctt ttattgattc tgtacttgaa 360  
 ggctacaatg ggactatttt tgcataatga caaacccgaa caggcaaaac ttttaccatg 420  
 gaaaggtgtc gagctattcc tgaacttaga ggaataattc cccaatttct ttgctcacia 480  
 tatttgggcc atatttgc 498

<210> 346  
 <211> 427  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(427)  
 <223> n = A,T,C or G

<400> 346  
 agatggcggg cgccgtgaga actttgcagg aacagctgga aaaggccaaa gagagtctta 60  
 agaacgtgga tgagaacatt cgcaagctca ccgggcggga tccgaatgac gtgaggccca 120  
 tccaagccag attgctggcc ctttctgggc ctggtggagg tagaggacgt ggtagtttat 180  
 tactgaggcg tggattctca gatagtggag gaggaccccc agccaaacag agagaccttg 240  
 aaggggcagt cagtaggctg ggcgggggagc gtcggaccag aagagaatca cgccaggaaa 300  
 gcgacccgga ggatgatgat gttaaaaagc cagcattgca gtcttcannt gtagctacct 360  
 cccaaagagc gccccacgta gagaccttat ccagggatca aaattttgga tgaaaaaggg 420  
 gaaagcc 427

<210> 347  
 <211> 280  
 <212> DNA  
 <213> Homo sapien

<400> 347  
 cacagaaagt tctccgctcc cagacatggg tccctcggtt tcctgcctcg gaagcgcagc 60  
 agcaggcatc gtgggaagggt gaagagcttc cctaaggatg acccggtccaa gccgggtccac 120  
 ctcacagcct tctggggata caaggctggc atgactcaca tcgtgcggga agtcgacagg 180  
 ccgggatcca aggtgaacaa gaaggagggtg gtggaggctg tgaccattgt agagacacca 240  
 cccatggtgg ttgtgggcat tgtgggctac gtggaaaccc 280

<210> 348  
 <211> 411  
 <212> DNA  
 <213> Homo sapien

<400> 348  
 caactatgat gtgcctgaaa aatgggcacg attctatact gcagaagtag ttcttgcatt 60  
 ggatgcaatc cattccatgg gttttattca cagagatgtg aagcctgata acatgtctgt 120  
 ggataaatct ggacatttga agtttagcaga ttttggtact tgtatgaaga tgaataagga 180  
 aggcattgta cgatgtgata cagcgggttg aacacctgat tatatttccc ctgaagtatt 240  
 aaaatcccaa ggtggtgatg gttattatgg aagagaatgt gactggtggt cggttgggg 300  
 atttttatac gaaatgcttg taggtgatac acctttttat gcagattctt tggttggaac 360  
 ttacagtaaa attatgaacc attaaaaatt cacttacctt tcctgatgat a 411

<210> 349  
 <211> 408  
 <212> DNA  
 <213> Homo sapien

<400> 349  
 gatgggcatc tctcgggaca actggcacia gcgcgcgcaa accggggggca agagaaagcc 60  
 ctaccacaag aagcgggaagt atgagttggg gcgcccagct gccaacacca agattggccc 120  
 ccgcccgcac cacacagtcc gtgtgcgggg aggttaacaag aaataccgtg ccctgagggt 180  
 ggacgtgggg aatttctcct ggggctcaga gtgttggtact cgtaaaacaa ggatcatcga 240  
 tgttgtctac aatgcatcta ataacgagct ggttgcgtacc aagaccctgg tgaagaattg 300  
 catcgtgctc atcgacagca caccgtaccg acagtgggtac gaggccact atgcgctgcc 360

cctgggccgc aagaaggag ccaaactgac ttctgaggaa gaagaaaa

408

<210> 350

<211> 409

<212> DNA

<213> Homo sapien

<400> 350

ggttccccca gctctgggta cccggtcttg catcgctcg ccatgatggg ccatcgcca	60
gtgctcgtgc tcagccagaa cacaagcgt gaatccgaa gaaaagttca atctggaac	120
atcaatgctg ccaagactat tgcagatata atccgaacat gtttgggacc caagtccatg	180
atgaagatgc ttttggaccc aatgggaggc attgtgatga ccaatgatgg caatgccatt	240
cttcgagaga ttcaagtcca gcatccagcg gccaaagtcca tgatcgaaat tagcgggacc	300
caggatgaag aggttggaga tgggaccaca tcagtaatta ttcttgacag ggaaatgctg	360
tctgtagctg agcacttcct ggagcagcag atgcacccaa caggtgggg	409

<210> 351

<211> 226

<212> DNA

<213> Homo sapien

<400> 351

aatcccaaac atataactga actcctcaca cccaattgga ccaatctatc accctataga	60
agaactaatg ttagtataag taacatgaaa acattctcct ccgcataagc ctgcgtcaga	120
ttaaaacact gaactgacaa ttaacagccc aatatctaca atcaaccaac aagtcattat	180
taccctcact gtcaacccaa cacaggcatg ctcataagga aagggt	226

<210> 352

<211> 410

<212> DNA

<213> Homo sapien

<400> 352

gcggaggggc tggctgggca ggaggggttg gcggggcagc agggccgcgg ccatggggag	60
cttgaaggag gagctgctca aagccatctg gcacgccttc accgcactcg accaggacca	120
cagcggaag gtctccaagt cccagctcaa ggtcctttcc cataacctgt gcacggtgct	180
gaaggttctt catgaccagc ttgcccttga agagcacttc agggatgatg atgaggttcc	240
agtgtccaac cagggttaca tgccttattt aaacagggtt attttgaaa aggtccaaga	300
caactttgac aagattgaat tcaataggat gtgttggacc ctctgtgtca aaaaaaacct	360
cacaaagaat cccctgctca ttacagaaga agatgcattt aaaatatggg	410

<210> 353

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(380)

<223> n = A,T,C or G

<400> 353

gagtttattt agaaagtatc atagtgtaaa caaacaatt gtaccacttt gattttcttg	60
gaatacaaga ctctgtatgc aaagctgaag ttgtgtgtac aagactcttg acagttgtgc	120

ttctctagga	ggntgggttt	ttttaaaaaa	agaattatct	gngaaccata	cgtgattaat	180
aaagatttcc	tttaaggcan	aggctggctn	agatgctgct	gttatcttct	gcctcagaca	240
gacagtataa	gnggtcttgt	ttctaagatt	cctaccacca	gttacttttg	gccaagtatc	300
cacatccctt	tgcgtatggg	aggnggggtga	anagtgttgg	atgcaaagng	gttattatgg	360
gaagnagctc	natggtaaaa					380

<210> 354  
 <211> 379  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(379)  
 <223> n = A,T,C or G

<400> 354						
caacacatct	ttattaaaca	cctgaagtta	ctgggaggag	gccatgatgc	tggacacact	60
gtcaaagtca	atctttctcca	caatgtttctt	gggtttaatg	ctctcttctt	ggctacagan	120
gaanatctgc	cccgactngt	cggcactcca	gccgtatttg	ctcatccaca	ccttttagctg	180
gctgtccgac	aganccccga	gcatntcggc	cagcagccan	cggncaatgt	gctggtaagt	240
gatacccaca	acatggcaga	taaacttttcg	gacanagtct	tcaaagccag	ttataccttc	300
caagaggtcc	atgttttcat	ccagggcctg	ccanaagcct	ggaaatggca	ggtctccaac	360
aggtccccc	ggtacaaaa					379

<210> 355  
 <211> 499  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(499)  
 <223> n = A,T,C or G

<400> 355						
gtccagagct	gctggtgctc	ccgttcccca	gaccctaccc	ctatccccag	tggagccgga	60
gtgcggggcg	gccccaccac	cgccctcacc	atgggtgctgt	tggcagcagc	ggtctgcaca	120
aaagcaggaa	aggctattgt	ttctcgacag	tttgtggaaa	tgacccgaac	tcggattgag	180
ggcttattag	cagcttttcc	aaagctcatg	aacactggaa	aacaacatac	gtttgttgaa	240
acagagagtg	taagatatgt	ctaccagcct	atggagaaaac	tgtatatggt	actgatcact	300
accaaaaaca	gcaacatttt	agaagatttg	gagaccctaa	ggctcttctc	aagagtgatc	360
cctgaatatt	gcgagcctta	gaagagaaatg	aaatatctga	gcactgnntt	gatttgattt	420
ttgcttttga	tgaaaatgtc	gcactgggat	accggggang	aatgttaact	tggcacagat	480
canaaccttt	cacagaaaa					499

<210> 356  
 <211> 511  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(511)

<223> n = A,T,C or G

<400> 356

gggcttctgc	tgagggggca	ggcggagctt	gaggaaaccg	cagataagtt	tttttctctt	60
tgaaagatag	agattaatac	aactacttaa	aaaatatagt	caataggtta	ctaagatatt	120
gottagcggt	aagtttttaa	cgtaatttta	atagcttaag	attttaagag	aaaatatgaa	180
gacttagaag	agtagcatga	ggaaggaaaa	gataaaaggt	ttctaaaaca	tgacggaggt	240
tgagatgaag	cttcttcatg	gagtaaaaaa	tgtattttaa	agaaaattga	gagaaaggac	300
tacagagccc	cgaattaata	ccaatagaag	ggcaatgctt	ttagattaaa	atgaagggtga	360
cttaaacagc	ttaaagttta	ntttaaaagt	tgtagggtgat	taaaataatt	tgaaggcgat	420
cttttaaaaa	gagattaaac	ccgaagggtga	ttaaaagacc	ttgaaatcca	tgacgccagg	480
gagaattgcc	gtcattttaa	gcctagttaa	c			511

<210> 357

<211> 511

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(511)

<223> n = A,T,C or G

<400> 357

gatacttcac	atttccttag	ggacgggagc	ccgaggggtc	cggtcggccc	tcttcctctc	60
gctggggcga	caccccgctg	taggaccgta	acccttagtc	ccaatgcctc	cgtaagcgga	120
gttgagtggg	tgccgtgtgt	tggagctgtg	gaggtgtccc	cggtggcgag	cgcgccaga	180
actgcggtca	cttaagtttt	ccgtgtgcgg	gttgcaagga	gcgtgcgtgc	gtctggtata	240
atttggcttc	ctgagattct	gottacaaga	aaggagtggg	aaataccctt	ggaaagaaaa	300
ctaaaacagt	aagaaaacca	aaacttattt	ttacatggnt	gtcagcacat	ttaccgatat	360
ggacactttt	cccaataatt	tcttcctggg	ggagacagtg	gattgacagg	ttctcagtcg	420
gaattccaga	aaaatgttaa	ttgatgaaaa	gggtacnatg	tgagcatcat	aaagntaatt	480
attaanacac	tgaaggctga	acacacaagg	g			511

<210> 358

<211> 401

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(401)

<223> n = A,T,C or G

<400> 358

acggatgaag	atgatgacct	tcaagaaaat	gaagacaata	aacaacataa	agaaagcttg	60
aaaagagtga	cctttgcttt	accagatgat	gcggaaactg	aagatacagg	tgttttaaat	120
gtaaagaaaa	attctgatga	agttaaatcc	tcttttgaaa	aaagacagga	aaagatgaat	180
gaaaaaattg	catctttaga	aaaagagttg	ttagaaaaaa	agcccggtgc	agcttcaggg	240
ggaagtgaca	gcacagaaga	ggccagagaa	cacctcctgg	aggagaccct	acctttgccca	300
tctgcccgat	ggccctgtga	ttacagagga	accccccttca	ctggagattt	ctttaacnga	360
ngatagagat	cngnttgga	tatgtntcct	taagaaaacc	t		401

<210> 359

<211> 511  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(511)  
 <223> n = A,T,C or G

<400> 359  
 gcgatgcccg cgcgcccg acgcctcctc ccgctgctgg cccggccggc ggccctgact 60  
 gcgctgctgc tgctgctgct gggccatggc ggcgccggc gctggggcgc ccgggccag 120  
 gaggcggcgg cggcgccggc ggacgggcc cccgcggcag acggcgagga cggacaggac 180  
 ccgcacagca agcacctgta cacggccgac atgttcacgc acgggatcca gagcgccgc 240  
 gcacttcgtc atgttcttcg cgccctggtg tggacacttg ccagcggtt gcagccgant 300  
 ttggaatgac cttggganga acaaatacaa cagcatggaa agaatgcaa aagtctatgt 360  
 ggnttaaagt ggacttgac ngccacttc gactngtgc ccccaagg gngggaagat 420  
 accacctta aaacttttca accaagcaa aaactttgaa aaccaggctc cggattcaaa 480  
 atggaaaact gatgttcaac ctgaacaaga a 511

<210> 360  
 <211> 511  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(511)  
 <223> n = A,T,C or G

<400> 360  
 tactgggaga ctttgagatt gagtccaaac agctggaagc agagtcttgg agtcggataa 60  
 tagacagcaa gtttctaaaa cagcaaaaga aagatgtggt caaacggcaa gaagtaatat 120  
 atgagttgat gcagacagag tttcatcatg tcccgactct caagatcatg agtgggtgtg 180  
 cnagccnggg gatgatggcg gatctgnttt ttgagcanca gatggtagaa aaagctgggt 240  
 ccctgttttg atgagcttga tcagtatccc ataccattc tttccagagg attcttggag 300  
 ccggaagaa nggagtcttc ttggtgggat aaaaagttaa aaagaacttt ctcttcaana 360  
 aggatagggg gatgtgcttt gtaaaatcan tttttcagg ngganaatgc cnaaacggt 420  
 ttaaagaaaa acatnttggg naagtttttg tgggccaaca ttaccgggtc ttgtaaacct 480  
 accttcaaag aacctttttg ccagggtta a 511

<210> 361  
 <211> 411  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(411)  
 <223> n = A,T,C or G

<400> 361  
 gctcagcggc ccgatccac ggaagcgcgc tcggaggggt gggacccggc cggaccggag 60  
 atggcgccgc cagcgggcgg ggcggcgccg gcggcctcgg acttgggctc cgccgcagtg 120

```

ctcttggtctg tgcacgccgc ggtgaggccg ctggggcgccg ggccagacgc cgaagcacia 180
cttgccgagg ctgcagctta acgcggaccc tgagaagcct ggcgcttncn gctggaactt 240
cttgccgagg gacctggggc ggtaatttga gtggccctga gtcatttcta caccatccag 300
gccaccaca cgactaagct cacaagaagg ctgaactnnc tgattctnaa cctagaanta 360
cgtgcatcta tcagtgcng aagaaatgac aacataccac tggcaactct g 411

```

```

<210> 362
<211> 511
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G

```

```

<400> 362
cgggggaccg ggctgccttg gccctcagc gctcgcgtct tttccggcag ttggaacgct 60
tcctgttgtc ctcaccgcta accgcctgtt gcccctgtc tcagagtccc tcacgcgtcc 120
cctcccgtct ttggctcgtt ggctgccgcc gccggggtt cgcagcctt caagtcgaga 180
ctactggccg aaggggcgtc tgcggctctc cgcgtcccc agcctgcct ctccctgggc 240
tctgccatgg caatgacagg ctcaacacct tgctcatcca tgagtaacca cacaaggaa 300
agggtgacaa tgacaaaaag tgacactgga gaatttttat agcaacctta tcgctcacat 360
gaagaacgag aaatgagaca aaagaagtta gaaaaagggg atggaagaag aaggcctaaa 420
aaaatgaagg agaaaaccaa cttccgaaga tcaaccacat tgcttcggaa anggaaacaa 480
aantttcttt cgtttgaaan aaaaacaaan a 511

```

```

<210> 363
<211> 401
<212> DNA
<213> Homo sapien

```

```

<400> 363
caggatctgg ggagaaaagag ccccatccct tctctctctg ccaccatttc ggacaccccg 60
cagggactcg ttttgggatt cgcactgact tcaaggaagg acgcgaaccc ttctctgacc 120
ccagctcggg cggccacctg tctttgccgc ggtgaccctt ctctcatgac cctgcggtgc 180
cttgagccct ccgggaatgg cggggaaggg acgcggagcc agtggggggac cgcggggtcg 240
gcgaggagc catccccgca ggcggcgcgt ctggcgaagg ccctgcggga gctcgtcag 300
acaggatggt actggggaag tatgactgtt aatgaagcca aagagaaatt aaaagaggca 360
ccagaaggaa ctttcttgat tagagatagc tcgcattcag a 401

```

```

<210> 364
<211> 401
<212> DNA
<213> Homo sapien

```

```

<400> 364
agtcaaagg tttttttccc tttttaccat ggtttctaca aaaataacct tcaggaaaaa 60
gaaaatcagg aaaaaaattt tttttcaata atcttattcc ctatattaaa ttagatttga 120
agaggattaa cgttgtttta gtttgggtcc agatcagcct tataacaacat ttctaaactc 180
atttgacttt ttaaaaaatt taaacacaga cttctaaaat tacttgatgt aagtaattta 240
aatcacttat gaccaagtta ttaaccttat gaatcagaag tctgaccctt gtaggaaatt 300
atattcacat ataaagtaca tcagatcttt gccatatatt gatgggtatt atgcataaac 360

```

acattgagtt gtgttggaag cagatttata aacctgcatg t

401

<210> 365

<211> 361

<212> DNA

<213> Homo sapien

<400> 365

atctggagtt	gcacaaatag	ttcttttagaa	cataaaacta	aatggattta	tacataacag	60
ttacattcag	cattttaagag	aggcagtaca	aaaatgtggt	ctgcttttat	ctgatataaa	120
ttgcatgtaa	taccatgatt	taaacaatat	cagttatatt	aactaatgcc	atgagatata	180
tcttactcag	aacgtctgat	gtttcccata	atagacagaa	aaaatgcagt	tgtatgagca	240
actgagtttc	ttttcatctt	caaattcatt	tgtgatgggtg	ggaagatcta	aggacaatcc	300
ttccattgaa	gaagtaggaa	aaacagttca	gcactgttct	gaactcatca	aaaatgaaat	360
t						361

<210> 366

<211> 401

<212> DNA

<213> Homo sapien

<400> 366

cgggagcagc	agaggtctag	cagccggggcg	ccgcggggccg	ggggcctgag	gaggccacag	60
gacgggcgtc	ttcccggtta	gtggagcccg	gcgcggggcc	cgctgcggcc	gcaccgtgag	120
gggaggaggc	cgaggaggac	gcagcgcccg	ctgccggcg	gaggaagcgc	tccaccaggg	180
ccccgacgg	cactcgttta	accacatccg	cgccctctgct	ggaaacgctt	gctggcgccct	240
gtcaccggtt	ccctccattt	tgaaggggaa	aaaggctctc	cccaccatt	cccctgcccc	300
taggagctgg	agccggagga	gccgcgctca	tggcggttcag	cccgtggcag	atcctgtccc	360
ccgtgcagtg	ggcgaaatgg	acgtggtctg	cggtacgcgg	c		401

<210> 367

<211> 401

<212> DNA

<213> Homo sapien

<400> 367

catggagtcg	ggcaagatgg	cgctcccaa	gaacgctccg	agagatgcct	tggatgatgc	60
acagatcctg	aaggatatgg	gaatcacaga	gtatgaacca	aggggtataa	atcaaatgtt	120
ggaatttgct	ttccgttatg	tgactacaat	tctggatgat	gcaaaaattt	attcgagcca	180
tgctaagaaa	cctaattgtg	atgcagatga	tgtgagactg	gcaatccagt	gtcgtgctga	240
ccaatctttt	acctctcctc	ccccaaagaga	ttttttactg	gatatcgcaa	ggcagaaaaa	300
tcaaaccctt	ttgccactga	ttaagccata	tgcaggacct	agactgccac	ctgatagata	360
ctgcttaaca	gctccaaact	ataggetgaa	gtccttaatt	a		401

<210> 368

<211> 401

<212> DNA

<213> Homo sapien

<400> 368

cggagcggta	ggagcagcaa	tttatccgtg	tgcagcccca	aactggaaag	aagatgctaa	60
ttaaagttaa	gacgctgacc	ggaaaggaga	ttgagattga	cattgaacct	acagacaagg	120
tggagcgaat	caaggagcgt	gtggaggaga	aagagggaat	ccccccacaa	cagcagaggc	180
tcattctacag	tggcaagcag	atgaatgatg	agaagacagc	agctgattac	aagatttttag	240



```

gtggttcagt ccttcacctg gtgttggtc tgagaggagg aggtggtctt aggcagtgat 300
ggacctcca ttttacctct ttacctgtc gtcataatg aggcataata taccctctca 360
ctctctggga caccatagcc ctgccccctc ccctggatgc c 401

```

```

<210> 369
<211> 174
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(174)
<223> n = A,T,C or G

```

```

<400> 369
gcgagnnngg cgccaagcgc ggggccggag cggccttccc ggagtccttt gcgcggcacc 60
tggcgacaaa atggctgccc gagggagacg ggcgagacct cagggccggg aggcctccggg 120
ccccgcgggc ggtggcgggtg gcgggagccg ttgggctgag tcgggatcgg ggac 174

```

```

<210> 370
<211> 375
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(375)
<223> n = A,T,C or G

```

```

<400> 370
tgcttttcca actttattta gaaaaacaaa tccaggtccc agtgccccct gtaccctccc 60
cgaccccagc cataatttaa ataacttana gacagagttg gagggagggg acagganagg 120
ttgggggtcac ggtggaagga ggaaganagc ccactacagc cgccgcagcg cccgcttctt 180
gtccgtcttt ttcttgcccg ccagcttctt atcgcgctcg ccagcatgct tnttgccat 240
gggacctca gccctccccg gggccccctg ggccccaggg tcggtggagg aagcttcagt 300
gccactggcc agggcccgac cggtctcggc cctgcgctg ggcccgccg cgccccctg 360
gatctctgtg agcag 375

```

```

<210> 371
<211> 375
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(375)
<223> n = A,T,C or G

```

```

<400> 371
taaattctaa aaaatatttt aatacttgaa aacttctaaa acaaaaggta aggtaacatg 60
ttctttcaaa agtgaatttc acatgcaaac cattaattat atttatttta ctgngagata 120
aaagcaaaac ataacattcg gagaaagaga ccagtaactg acctatttat tttatattat 180
attaatgnga atcctcatta gaaatgtgat aacgttattg cacaacaaa accgtgggca 240
gaaacatccc agcaatgcag gggcgcccat accgggttac aagggatgtc cagcatgtgt 300

```

ttccctggaa cactcanagt ctgcactttt cctgcaaagt ggaccatgtc tgattattta 360  
 ttatgaaaga acact 375

<210> 372  
 <211> 164  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(164)  
 <223> n = A,T,C or G

<400> 372  
 cgctctgtnt cctcaacctc tacctggcgg aggttatatg taaagtcaga tgtgccactg 60  
 aacttgacag acacaaaatt ctactgcatt tgggctttat aatggcaagc ctgctctttt 120  
 tagtggtgaa cttgacttgc gcaatgctag ttcattggaga tgctc 164

<210> 373  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

<400> 373  
 gcgctgttct cctttgccta cctgcagctg tggcggtctc tccctgtaccg cgagcggcgg 60  
 ctgagttacc agagcctctg cctcttcctc tgtctcctgt gggcagcgt caggaccacc 120  
 ctcttctcgg ccgccttctc gctcagcggc tccctgcctt tgctccggcc gcccgctcac 180  
 ctgcacttct tccccactg gctgctctac tgcttccctt cctgtctcca gttctccaag 240  
 ctctgtctcc tcaacctcta cctggcggag gttatatgta aagtcagatg tgccactgaa 300  
 cttgacagac acaaaaattct actgcatttg ggctttataa tggcaagcct gctcttttta 360  
 gtggtgaact tgacttgcgc aatgctagtt catggagatg t 401

<210> 374  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

<400> 374  
 ggaatgatac cattcagatt gatttggaga ctggcaagat tactgatttc atcaagtctg 60  
 aacttggtaa cctgtgtatg gtgactggag gtgctaacct aggaagaatt ggtgtgatca 120  
 ccaacagaga gaggcaccct ggatcttttg acgtggttca cgtgaaagat gccaatggca 180  
 acagctttgc cactcgactt tccaacattt ttgttatttg caagggaac aaacctgga 240  
 tttctcttcc ccgaggaaag ggtatccgcc tcaccattgc tgaagagaga gacaaaagac 300  
 tggcgcccaa acagagcagt ggggtgaaatg ggctccctggg tgacatgtca gatctttgta 360  
 cgtaattaaa aatattgttg caggattaat agcaaaaaaa a 401

<210> 375  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

<400> 375  
 gagcggagtc cgctggctga cccgagcgt ggtctccgcc gggaaccctg gggcatggag 60  
 aggtctgagt acctcgcccg cggcgcacgc tgcatcgcg agccaggccg aggacgtgag 120

```

ggtggagggc tcctttcccg tgaccatgct tccgggagac ggtgtggggc ctgagctgat      180
gcacgccgtc aaggaggtgt tcaaggctgc cgctgtccca gtggagttcc aggagcacca      240
cctgagttag gtgcagaata tggcatctga ggagaagctg gagcaggtgc tgagttccat      300
gaaggagaac aaagtggcca tcattggaaa gattcatacc ccgatggagt ataaggggga      360
gctagcctcc tatgatatgc ggctgaggcg taagttggac t                               401

```

<210> 376  
 <211> 284  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(284)  
 <223> n = A,T,C or G

```

<400> 376
ggaacaaggt cgtgaaaaaa aaggctcttg tgagggtgccg ccatttcacg tgtcctcatt      60
ctctgcgcct ttgcagagc ttccancagc tggtagttg ggccagagca tccggagggt      120
cacaacctct gtgggtccgta ggagccacta tgaggagggc cctgggaaga atttgccatt      180
ttcagtggaa aacaagtggc cgttactagc taagatgtgt ttgtactttg gatctgcatt      240
tgctacaccc ttctttgtan taagacacca actgcttaaa acat                               284

```

<210> 377  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

```

<400> 377
atztatgtta ttgcaactct ggtgtgattt atcgtatgta tctgataggt tttatgaatt      60
gttttgagtt gtaaaactct atacccttta ttaaaatgga cctaattaag tgatttatgc      120
tttgtgaat ttcttaaact agatctctct aggattgaag ggatccatag gtatctttca      180
cttagtgtag agcctagtag tatactttta tattcctgaa gagagaccag cattaacata      240
aagagagaag tcttaggaaa aaatatacct aagaattatt tttaaaattc atactgtgaa      300
ggagaatctg cctgcctatt tcctctocaa atttcagaaa ataacacaga gtgctatttg      360
cctgaacttt aatgagcttg actttgttat gattcagga g                               401

```

<210> 378  
 <211> 401  
 <212> DNA  
 <213> Homo sapien

```

<400> 378
ccagaacaca ggtgtcgtga aaactacccc taaaagccaa aatgggaaag gaaaagactc      60
atatcaacat tgtcgtcatt ggacacgtag attcgggcaa gtccaccact actggccatc      120
tgatctataa atgcggtggc atcgacaaaa gaaccattga aaaatttgag aaggaggctg      180
ctgagatggg aaagggtccc ttcaagtatg cctgggtcct ggataaactg aaagctgagc      240
gtgaacgtgg tatcaccatt gatctctcct tgtggaaatt tgagaccagc aagtactatg      300
tgactatcat tgatgcccc ggacacagag actttatcaa aaacatgatt acagggacat      360
ctcaggctga ctgtgctgtc ctgattgttg ctgctggtgt t                               401

```

<210> 379  
 <211> 401  
 <212> DNA

<213> Homo sapien

<400> 379

tcagatatca	ggtggcttct	tcaaattgatt	tttaagtatc	tcgatgatga	tgaagaacaa	60
agacatcaat	caggattcag	gaagacagct	tttgcgga	atgcttaaag	ggaagcatca	120
aggattggtg	ttgatatttg	aaagtttaag	agtgggtatac	ttttattcag	tcaacacatg	180
acaaatgtaa	aaggcactca	tttggtgttc	ctggaagaag	cctggcagca	ttccattcag	240
acatctgccc	tttcatcgtc	ccacttttta	cttattgcag	tcctttcagt	ctgaatattt	300
cctcctgacg	catcttctgc	cgtccgaaat	gactccctgc	tcccagatcc	tgtagccctt	360
attattgaca	ccttttcattt	agaaatttag	cacatgtcac	a		401

<210> 380

<211> 401

<212> DNA

<213> Homo sapien

<400> 380

cctgactctc	tgaggctcat	tttgacgttg	ttgaaattgt	ccccgcagtt	ttcaatcatg	60
tctgaaccaa	tcagagtcct	tgtgactgga	gcagctggtc	aaattgcata	ttcactgctg	120
tacagtattg	gaaatggatc	tgtcttttgt	aaagatcagc	ctataattct	tgtgctgttg	180
gatatcaccc	ccatgatggg	tgtcctggac	ggtgtcctaa	tggaactgca	agactgtgcc	240
cttccccctc	tgaaagatgt	catcgcaaca	gataaagaag	acgttgccct	caaagacctg	300
gatgtggcca	ttcttgtggg	ctccatgcca	agaagggaag	gcatggagag	aaaagattta	360
ctgaaagcaa	atgtgaaaat	cttcaaatcc	cagggtgcag	c		401

<210> 381

<211> 401

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(401)

<223> n = A,T,C or G

<400> 381

ggggcttcgc	tggcagctctg	aacggcaagc	ttgagcaacg	cggtaaaaaat	attgcttcgg	60
tgggtgacgc	ggtacagctg	tccaagggcn	ttngtaacgg	gaatgccgaa	gcgtgggaaa	120
aagggagcgg	tggcgggaaga	cggggatgag	ctcaggacag	agccagaggc	caagaagagt	180
aagacggccg	caaagaaaaa	tgacaaagag	gcagcaggag	agggcccagc	cctgtatgag	240
gacccccag	atcagaaaac	ctcaccctagt	ggcaaacctg	ccacactcaa	gatctgctct	300
tggaatgtgg	atgggcttcg	agcctggatt	aagaagaaag	gattagattg	ggtaaaggaa	360
gaagccccag	atatactgtg	ccttcaagag	accaaattgt	c		401

<210> 382

<211> 491

<212> DNA

<213> Homo sapien

<400> 382

gagcagcccc	cggcggtctga	aagccggggc	agaagtgtctg	gtctcggtcg	ggattccggg	60
cttgggtccca	ccgaggcggc	gactgcggta	ggaggggaaga	ggttttggac	gcgctggcct	120
cccgcgctg	tgcatcgcag	cattatttca	gttcaaaatg	aactatatgc	ctggcaccgc	180
cagcctcatc	gaggacattg	acaaaaagca	cttggttctg	cttcgagatg	gaaggacact	240

tataggcttt	ttaagaagca	ttgatcaatt	tgcaaaactta	gtgctacatc	agactgtgga	300
gcgtattcat	gtgggcaaaa	aatacgggtga	tattcctoga	gggatttttg	tggtcagagg	360
agaaaatgtg	gtcctactag	gagaaataga	cttggaagag	gagagtgaca	caccctcca	420
gcaagtatcc	attgaagaaa	ttctagaaga	acaaagggtg	gaacagcaga	ccaagctgga	480
agcagagaag	t					491

&lt;210&gt; 383

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 383

gagtcacatc	cagcgccctg	aaaatgcagt	gaaaaaacct	gaagataaaa	aggaagtttt	60
cagacccctc	aagcctgctg	gcgaagtgga	tctgaccgca	ctggccaaaag	agcttcgagc	120
agtgaagat	gtacggccac	ctcaciaaag	aacggactac	tcctcatcca	gtgaggagtc	180
ggggacgacg	gatgaggagg	acgacgatgt	ggagcaggaa	ggggctgacg	agtccacctc	240
aggaccagag	gacaccagag	cagcgatcatc	tctgaatttg	agcaatggtg	aaacggaatc	300
tgtgaaaacc	atgattgtcc	atgatgatgt	agaaagttag	cgggccatga	ccccatccaa	360
ggaggggcact	ctaactgtcc	gccagagtac	agttgaccaa	aagcgtgcca	gccatcatga	420
gagcaatggc	tttgccgggtc	gcattcacct	cttgccagat	ctcttacagc	aaagccattc	480
ctcctccact	t					491

&lt;210&gt; 384

&lt;211&gt; 491

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 384

gagcctaate	tcagggtggtc	cacccgagac	cccttgagca	ccaaccctag	tccccgcgc	60
ggccccctat	tcgctccgac	aaggtacaaa	aaggctctgg	acggcggtgt	ggtaggagga	120
cgggagcggg	ggcggaagt	tcctgaagg	agcgagacag	ggaggacag	ggcagaggag	180
gagaggaagg	cgatgcgacg	gacaggcgca	cccgtcagg	ctgactctcg	ggggcgaggt	240
cgagccaggg	gcggtgccc	tgggggagag	gcgacgtgt	ctcaacctcc	acctcgcgcc	300
ggaaccgag	gacaggagcc	tcagatgaaa	gaaacaatca	tgaaccagga	aaaactcgcc	360
aaactgcagg	cacaagtgcg	cattggtggg	aaaggaaactg	ctcgagagaa	gaagaagggtg	420
gttcatagaa	cagccacagc	agatgacaaa	aaacttcagt	tctccttaaa	gaagttaggg	480
gtaaacaata	t					491

&lt;210&gt; 385

&lt;211&gt; 483

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 385

agccgctgcg	aaggagccg	ccgcatgtc	tgcgcatctg	caatggatgg	tcgtgcggaa	60
ctgctccagt	ttctgatca	agaggaataa	gcagacctac	agcactgagc	ccaataactt	120
gaaggcccg	aattccttcc	gtacaaacgg	actgattcac	cgcaagactg	tgggctgga	180
gccggcagcc	gacggcaag	gtgtcgtggt	ggtcattaag	cggagatccg	gccagcgga	240
gctgcccacc	tcctatgtgc	ggaccaccat	caacaagaat	gctcgcgcca	cgctcagcag	300
catcagacac	atgatccgca	agaacaagta	ccgccccgac	ctgogcatgg	cagccatccg	360
cagggccagc	gccatcctgc	gcagccagaa	gcctgtgatg	gtgaagagga	agcggacccg	420
ccccaccaag	agctcctgag	ccccctgccc	ccagagcaat	aaagtcagct	ggctttctca	480
cct						483

<210> 386  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<400> 386  
 aggtggaagg aaaaaacata aatgaagtta atgcacttct tttcctagcc caaaagtcac 60  
 tgtgattata tttttttaat gaagtttaga aaaaaagctg ttgtcttctc aattgtaaaa 120  
 ttagtttcaa aatgctgctt ctcttatcat tagtctagta attggtgaac ttttctgcaa 180  
 actgcatttt acaaaattga aacttggaag ctgtattaac ttttatagtt aaacattgta 240  
 ttaaataaac tatactataa taaacagttt ggttttgtat tttttaaatt gtattatcca 300  
 gcctttttaa aattaaaagc taaataatga aaataaacca attaaaacat acttttactc 360  
 tcagatatac aggtattttac attatgaaaa aactgaacaa agttttaaca atactgagct 420  
 ttaagaattt agccagcagg gaaaatttcc aggtttgaga atgttctaata gtaaataattt 480  
 aatcataata c 491

<210> 387  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<400> 387  
 ccacaccacc gtgtcccaag tccagccccc tccctccaag gcatcagcac ctgaaccccc 60  
 tgcagaagaa gaagtggcaa ctggtacaac ctcagcctct gatgacctgg aagccctggg 120  
 tacactgagc ctggggacca cagaggagaa ggcagcagct gaggcggctg tgcccaggac 180  
 cattggggcc gagctgatgg agctgggtgc gagaaacact ggctgagcc acgaattatg 240  
 ccgggtggcc atcggcatca tagtgggtca catccaggcc tcgggtgccg ccagctcacc 300  
 agtcatggag caggtccctc tctcactcgt agagggcaag gacctcagca tggccctgcc 360  
 ctcagggcag gtctgccacg accagcagag gctggagggt atctttgcag acctggctcg 420  
 ccggaaggac gacgcccagc agcgcagttg ggcactatat gaggatgagg gtgtcatccg 480  
 ctgctaccta g 491

<210> 388  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<400> 388  
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 agtaaagata cctcttttac gactccactt atgactccct aaagcccatg tcgaagcccc 120  
 catcgctggg tcaatagtac ttgccgcagt actcttgaaa ctaggcggct atggtataat 180  
 acgcctcaca ctcattctca accccctgac aaaacacata gcctaccctt tccttgact 240  
 atccctatga ggcataatta taacaagctc catctgccta cgacaaacag acctaaaatc 300  
 gctcattgca tactcttcaa tcagccacat agccctcgta gtaacagcca ttctcatcca 360  
 aacccctga agcttcaccg ggcagtcac tctcataatc gccacggac ttacatcctc 420  
 attactattc tgcctagcaa actcaaaacta cgaacgcact cacagtcgca tcataatcct 480  
 ctctcaagga c 491

<210> 389  
 <211> 511  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(511)  
 <223> n = A,T,C or G

<400> 389  
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 gaaagaaaaa ataattccat ttttaaaact ctgtctgtcc aaagtataac atatgaaacc 120  
 atgccattat ctnttaggaa acaaaagcat tcaaaattaa tttggtatta aagttcaaga 180  
 ttcanactaa cctcaaagta cggcatgtgc agtggttaag tgcaanaagt attttcattc 240  
 caattatttt acananaatgc tggagtgcag tgtgcaattt gaaatattca aatcctttaa 300  
 ggnttctgaa ctaagtgttt aaatgaaaac tgaaatgctg catagtttca gtggctttca 360  
 atttcctgtt tgatctcaga aatatatgga tgatctttgc cgtgagctac ttccatgatt 420  
 gcaatggcct tcttcagggc tttctccctt ggggctttgt gttccaggcc catgtagagt 480  
 ctccctagct tcaaccacat ggaggccacg t 511

<210> 390  
 <211> 1984  
 <212> DNA  
 <213> Homo sapien

<400> 390  
 cctgggggta gaggctgggg tgggtggggg gtaagggggc agtcctttct ccttcgacg 60  
 ggggtctcga gtccagcccc ttcttcccg cgctcgtcg cccggcccc agccccctca 120  
 tgagggtgtc cgtgccgggt cggcgggcgg ctgccgccc cgcagccggc cgcgagccct 180  
 ccacgcccgg cgggggcagc ggaggcggag gcgcgcgtcg tcagccctca ggcgccggcg 240  
 tgccgggctc cgtgcaattg gcgctgagcg tctgcacgc cctgctctac gccgcgctgt 300  
 tegcctttgc ctacctgcag ctgtgggggc tgctcctgta ccgcgagcgg cggctgagtt 360  
 accagagcct ctgctcttc ctctgtctcc tgtgggcagc gctcaggacc accctcttct 420  
 ccgcccctt ctgctcagc ggctccctgc ccttgcctcg gccgcccgt cacctgcact 480  
 tcttccccc ctggctgtc tactgttcc cctcctgtct ccagttctcc acgctctgtc 540  
 tctcaacct ctacctggcg gagttatat gtaaagtcag atgtgccact gaacttgaca 600  
 gacacaaaat tctactgcat ttgggcttta taatggcaag cctgctcttt ttagtggtga 660  
 acttgacttg cgcaatgcta gttcatggag atgtcccaga aaatcagttg aagtggactg 720  
 tgtttgttcg agcattaatt aatgatagcc tgtttattct ttgtgccatc tctttagtgt 780  
 gttacatatg caaaattaca aaaatgtcat cagctaattg ctacctgaa tcaaagggtg 840  
 tgtctctgtg ccagactgtc atcgtgggct ctgtagtcac tcttctgtac tcttcagag 900  
 cttgttataa tttggtggtg gtcaccatat ctccaggatac attagaaagt ccatttaatt 960  
 atggctgga taatctttca gataaggctc atgtagaaga cataagtgga gaagagtata 1020  
 tagtatttgg aatggtctc tttctgtggg aacatgtgcc agcatggctg gtggtactgt 1080  
 ttttcgggc acagagatta aaccagaatt tggcacctgc tggcatgata aatagtcaca 1140  
 gttatagttc cagagcttac ttttcgaca atccaagacg atatgatagt gatgatgacc 1200  
 tgccaagact ggaagttca agagaaggaa gtttaccaaa ttcgcaaagt ttgggctggt 1260  
 atggcaccat gactgggtgt ggcagcagca gttacacagt cactccccac ctgaatggac 1320  
 ctatgacaga tactgtctct ttgctcttta cttgtagtaa tttagatttg aacaatcatc 1380  
 atagcttata tgtgacacca caaaactgac agcatcacca agtcatgatt cttgagttgt 1440  
 ttttcataaa tgtgtatatt caatgtgttt aaattccatc tacataaaca ttccattatc 1500  
 tgttgcaact gaaaacaaaa totggaagtg tggctgtgtt tggtaaataa cacagctatt 1560  
 atttttgacc tcttcatagt aaaatgaagt aaaatggaaa gtttgagta ggagaaaaga 1620  
 gagattagat cttaaggcac ttgatggcct ccaaaaatcc tgactttgga acatcaaag 1680  
 catatgtgca cttttatctt tgttctgagt cactgcagtc cccaaagtca tatgccaatg 1740  
 ttcacactga aatactgtat tgtacaccaa actggaaggc aattttctta tgaaaatcaa 1800  
 agccggtata ttcattggta tgctctatac agatatctta ataaaaattt tatagtgtga 1860  
 acagtgcaca gagttaaggc ataaaaatgt atcattcttt ataaaaatct actgaaaatg 1920  
 tgtaatcatt gaagacagtt cttttaagca tgattttaaa atagcaactg aaattcaatc 1980

attt

1984

&lt;210&gt; 391

&lt;211&gt; 429

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 391

Met Arg Val Ser Val Pro Gly Pro Ala Ala Ala Ala Pro Ala Ala  
                                   5                                  10                                  15

Gly Arg Glu Pro Ser Thr Pro Gly Gly Gly Ser Gly Gly Gly Gly Ala  
                                   20                                  25                                  30

Val Ala Ala Ala Ser Gly Ala Ala Val Pro Gly Ser Val Gln Leu Ala  
                                   35                                  40                                  45

Leu Ser Val Leu His Ala Leu Leu Tyr Ala Ala Leu Phe Ala Phe Ala  
                                   50                                  55                                  60

Tyr Leu Gln Leu Trp Arg Leu Leu Leu Tyr Arg Glu Arg Arg Leu Ser  
                                   65                                  70                                  75                                  80

Tyr Gln Ser Leu Cys Leu Phe Leu Cys Leu Leu Trp Ala Ala Leu Arg  
                                   85                                  90                                  95

Thr Thr Leu Phe Ser Ala Ala Phe Ser Leu Ser Gly Ser Leu Pro Leu  
                                   100                                  105                                  110

Leu Arg Pro Pro Ala His Leu His Phe Phe Pro His Trp Leu Leu Tyr  
                                   115                                  120                                  125

Cys Phe Pro Ser Cys Leu Gln Phe Ser Thr Leu Cys Leu Leu Asn Leu  
                                   130                                  135                                  140

Tyr Leu Ala Glu Val Ile Cys Lys Val Arg Cys Ala Thr Glu Leu Asp  
                                   145                                  150                                  155                                  160

Arg His Lys Ile Leu Leu His Leu Gly Phe Ile Met Ala Ser Leu Leu  
                                   165                                  170                                  175

Phe Leu Val Val Asn Leu Thr Cys Ala Met Leu Val His Gly Asp Val  
                                   180                                  185                                  190

Pro Glu Asn Gln Leu Lys Trp Thr Val Phe Val Arg Ala Leu Ile Asn  
                                   195                                  200                                  205

Asp Ser Leu Phe Ile Leu Cys Ala Ile Ser Leu Val Cys Tyr Ile Cys  
                                   210                                  215                                  220

Lys Ile Thr Lys Met Ser Ser Ala Asn Val Tyr Leu Glu Ser Lys Gly  
                                   225                                  230                                  235                                  240

Met Ser Leu Cys Gln Thr Val Ile Val Gly Ser Val Val Ile Leu Leu



245                      250                      255  
 Tyr Ser Ser Arg Ala Cys Tyr Asn Leu Val Val Val Thr Ile Ser Gln  
                          260                      265                      270  
 Asp Thr Leu Glu Ser Pro Phe Asn Tyr Gly Trp Asp Asn Leu Ser Asp  
                          275                      280                      285  
 Lys Ala His Val Glu Asp Ile Ser Gly Glu Glu Tyr Ile Val Phe Gly  
                          290                      295                      300  
 Met Val Leu Phe Leu Trp Glu His Val Pro Ala Trp Ser Val Val Leu  
 305                      310                      315                      320  
 Phe Phe Arg Ala Gln Arg Leu Asn Gln Asn Leu Ala Pro Ala Gly Met  
                          325                      330                      335  
 Ile Asn Ser His Ser Tyr Ser Ser Arg Ala Tyr Phe Phe Asp Asn Pro  
                          340                      345                      350  
 Arg Arg Tyr Asp Ser Asp Asp Asp Leu Pro Arg Leu Gly Ser Ser Arg  
                          355                      360                      365  
 Glu Gly Ser Leu Pro Asn Ser Gln Ser Leu Gly Trp Tyr Gly Thr Met  
                          370                      375                      380  
 Thr Gly Cys Gly Ser Ser Ser Tyr Thr Val Thr Pro His Leu Asn Gly  
 385                      390                      395                      400  
 Pro Met Thr Asp Thr Ala Pro Leu Leu Phe Thr Cys Ser Asn Leu Asp  
                          405                      410                      415  
 Leu Asn Asn His His Ser Leu Tyr Val Thr Pro Gln Asn  
                          420                      425

<210> 392  
 <211> 1584  
 <212> DNA  
 <213> Homo sapiens

<400> 392  
 ggaagactgg agcctttgcg gcggcgctgc ccctcccctg gtccccgcga gctcggaggg 60  
 cccggctggt gctgcggggg ccccgaggag ttgaaaacta agcatgggga agagctgcaa 120  
 ggtggctcgtg tgtggccagg cgtctgtggg caaaacttca atcctggagc agcttctgta 180  
 tgggaaccat gtagtgggtt cggagatgat cgagacgcag gaggacatct acgtgggctc 240  
 cattgagaca gaccgggggg tgcgagagca ggtgcgtttc tatgacaccc gggggctccg 300  
 agatggggcc gaactgcccc gacactgctt ctcttgcaact gatggctacg tcctgggtcta 360  
 tagcacagat agcagagagt cttttcagcg tgtggagctg ctcaagaagg agattgacaa 420  
 atccaaggac aagaaggagg tcaccatcgt ggctccttggc aacaagtgtg acttacagga 480  
 gcagcggcgt gtagaccag atgtggctca gcaactgggc aagtcagaga aggtgaagct 540  
 gtgggagggtg tcagtggcgg accggcgctc cctcctggag ccctttgtct acttggccag 600  
 caagatgacg caaccccaga gcaagtctgc cttccccctc agccggaaga acaagggcag 660  
 cggctccttg gatggctgaa gagctgccgt tcctctttca cgatcccagc cccatttcag 720

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<210> 393
<211> 191
<212> PRT
<213> Homo sapiens
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<400> 393
Met Gly Lys Ser Cys Lys Val Val Val Cys Gly Gln Ala Ser Val Gly
      5      10
Lys Thr Ser Ile Leu Glu Gln Leu Leu Tyr Gly Asn His Val Val Gly
      20      25      30
Ser Glu Met Ile Glu Thr Gln Glu Asp Ile Tyr Val Gly Ser Ile Glu
      35      40      45
Thr Asp Arg Gly Val Arg Glu Gln Val Arg Phe Tyr Asp Thr Arg Gly
      50      55      60
Leu Arg Asp Gly Ala Glu Leu Pro Arg His Cys Phe Ser Cys Thr Asp
      65      70      75      80
Gly Tyr Val Leu Val Tyr Ser Thr Asp Ser Arg Glu Ser Phe Gln Arg
      85      90      95
Val Glu Leu Leu Lys Lys Glu Ile Asp Lys Ser Lys Asp Lys Lys Glu
      100      105      110
Val Thr Ile Val Val Leu Gly Asn Lys Cys Asp Leu Gln Glu Gln Arg
      115      120      125
Arg Val Asp Pro Asp Val Ala Gln His Trp Ala Lys Ser Glu Lys Val
      130      135      140
Lys Leu Trp Glu Val Ser Val Ala Asp Arg Arg Ser Leu Leu Glu Pro
      145      150      155      160
Phe Val Tyr Leu Ala Ser Lys Met Thr Gln Pro Gln Ser Lys Ser Ala
      165      170      175

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Phe Pro Leu Ser Arg Lys Asn Lys Gly Ser Gly Ser Leu Asp Gly  
 180 185 190

<210> 394  
 <211> 1937  
 <212> DNA  
 <213> Homo sapiens

<400> 394  
 ccggttcccc cagctctggg taccoggcto tgcctcgcgt cgccatgatg ggccatcgct 60  
 cagtgtctgt gtcagccag aacacaaagc gtgaatccgg aagaaaagtt caatctggaa 120  
 acatcaatgc tgccaagact attgcagata tcatccgaac atgtttggga cccaagtcca 180  
 tgatgaagat gcttttgac ccaatgggag gcatttgtat gaccaatgat ggcaatgcca 240  
 ttcttcgaga gattcaagtc cagcatccag cggccaagtc catgatcgaa attagccgga 300  
 cccaggatga agaggttga gatgggacca catcagtaat tattcttgca ggggaaatgc 360  
 tgtctgtagc tgagcacttc ctggagcagc agatgcaccc aacagtgggtg atcagtgcctt 420  
 accgcaaggc attggatgat atgatcagca ccctaaagaa aataagtatc ccagtcgaca 480  
 tcagtgcagc tgatatgatg ctgaacatca tcaacagctc tattactacc aaagccatca 540  
 gtogggtgtc atctttggct tgcaacattg ccctggatgc tgtcaagatg gtacagtttg 600  
 aggagaatgg tcggaaagag attgacataa aaaaatatgc aagagtggaa aagataacctg 660  
 gaggcacatc tgaagactcc tgtgtcttgc gtggagtcac gattaacaag gatgtgaccc 720  
 atccacgtat gcggcgctat atcaagaacc ctgcattgt gctgctggat tcttctctgg 780  
 aatacaagaa aggagaaagc cagactgaca ttgagattac acgagaggag gacttcaccc 840  
 gaattctcca gatggaggaa gactacatcc agcagctctg tgaggacatt atccaactga 900  
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 gggccaatat cacagccatc cgcagagtc cgaagacaga caataatcgc attgctagag 1020  
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 gagcaggcct gttggaaatc aagaaaattg gagatgaata ctttactttc atcactgact 1140  
 gcaaagaccc caaggcctgc accattctcc tccggggggc tagcaaagag attctctcgg 1200  
 aagtagaacg caacctccag gatgccatgc aagtgtgtcg caatgttctc ctggaccctc 1260  
 agctggtgcc agggggtggg gcctccgaga tggctgtggc ccatgccttg acagaaaaat 1320  
 ccaaggccat gactggtgtg gaacaatggc catacagggc tgttgcccag gccctagagg 1380  
 tcatttctcg taccctgatc cagaactgtg gggccagcac catccgtcta cttacctccc 1440  
 ttccggccaa gcacacccag gagaactgtg agacctgggg tgtaaatggg gagacgggta 1500  
 ctttgggtga catgaaggaa ctgggcatat gggagccatt ggctgtgaag ctgcagactt 1560  
 ataagacagc agtggagacg gcagttctgc tactgcgaat tgatgacatc gtttcaggcc 1620  
 acaaaaagaa aggcgatgac cagagccggc aaggcggggc tcctgatgct ggccaggagt 1680  
 gagtgctagg caaggctact tcaatgcaca gaaccagcag agtctccctt tttcctgagc 1740  
 cagagtgcc aagaactgt ggacgtcttt gttcagaagg gatcagggtt gggggcagcc 1800  
 cccagtcctt ttctgtccca gtcagtttt ccaaaagaca ctgacatgta attcttctct 1860  
 attgtaaggt ttccatttag tttgcttccg atgattaaat ctaagtcatt tgaaaaaaa 1920  
 aaaaaaaaa actcgag 1937

<210> 395  
 <211> 1675  
 <212> DNA  
 <213> Homo sapiens

<400> 395  
 gcgcgaatcg cggtcgcgag ccatggagga ggaggcatcg tccccggggc tgggctgcag 60  
 caagccgcac ctggagaagc tgacctggg catcacgcgc atcctagaat cttccccagg 120  
 tgtgactgag gtgaccatca tagaaaagcc tcctgctgaa cgtcatatga tttcttctct 180  
 ggaacaaaag aataactgtg tgatgcctga agatgtgaag aacttttacc tgatgaccaa 240

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tggcttccac atgacatgga gtgtgaagct ggatgagcac atcattccac tgggaagcat 300
ggcaattaac agcatctcaa aactgactca gctcaccag tcttccatgt attcacttcc 360
taatgcaccc actctggcag acctggagga cgatacacat gaagccagtg atgatcagcc 420
agagaagcct cactttgact ctgcgagtgt gatatttgag ctggattcat gcaatggcag 480
tgggaaagt tgccttgtct acaaaagtgg gaaaccagca ttagcagaag acactgagat 540
ctggttcctg gacagagcgt tatactggca ttttctcaca gacaccttta ctgcctatta 600
ccgcctgctc atcaccacc tgggcctgcc ccagtggcaa tatgccttca ccagctatgg 660
cattagccca caggccaagc aatggttcag catgtataaa cctatcacct acaacacaaa 720
cctgctcaca gaagagaccg actcctttgt gaataagcta gatcccagca aagtgtttaa 780
gagcaagaac aagatcgtaa tccccaaaaa gaaagggcct gtgcagcctg caggtggcca 840
gaaagggccc tcaggaccct ccggtccctc cacttcctcc acttctaaat cctcctctgg 900
ctctggaaac cccaccggga agtgagcacc cctccctcca actccctacc agctccagag 960
tgggtggttt catgcacaga tggccctagg ggtgacctcc agttttgcgt gtggaccgta 1020
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aatgttgaat ctgtgtgaag tgcccaaata agtctgagtg ctttctcttt cttcaacact 1200
caaccctcaa tcccttagca ctgattgatt agagagggtc cccaaagaaa ccactggttt 1260
tgacccatga agcattagaa ctgcattggt cattcaggag ccactagtca catatgacta 1320
tttaaattta aagtaaattg tatgaaaaat tcatttcttc aattgcatta gccacatttt 1380
gagtattcat gtggctggta gattctgtat tagcacaaag atatggaaca tttccatcac 1440
cacagaaagt tctgttggac agcactgcat tagaatattt tcatactgct cttcctcaat 1500
taatttttgt tgtaaatgtt gatgtcttca ttggatgggt cataatgttc catgaaacct 1560
ctcaagtaca caattgtatg ttctttgtat cccttaccac aaatatctcg ctctgctcat 1620
ttcttttgca gcttcctata aagtttgtct tcctcatcaa aaaaaaaaaa aaaaa 1675

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<210> 396
<211> 559
<212> PRT
<213> Homo sapiens

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<400> 396
Gly Ser Pro Ser Ser Gly Tyr Pro Ala Leu His Arg Val Ala Met Met
          5                      10                      15

Gly His Arg Pro Val Leu Val Leu Ser Gln Asn Thr Lys Arg Glu Ser
          20                      25                      30

Gly Arg Lys Val Gln Ser Gly Asn Ile Asn Ala Ala Lys Thr Ile Ala
          35                      40                      45

Asp Ile Ile Arg Thr Cys Leu Gly Pro Lys Ser Met Met Lys Met Leu
          50                      55                      60

Leu Asp Pro Met Gly Gly Ile Val Met Thr Asn Asp Gly Asn Ala Ile
          65                      70                      75                      80

Leu Arg Glu Ile Gln Val Gln His Pro Ala Ala Lys Ser Met Ile Glu
          85                      90                      95

Ile Ser Arg Thr Gln Asp Glu Glu Val Gly Asp Gly Thr Thr Ser Val
          100                      105                      110

Ile Ile Leu Ala Gly Glu Met Leu Ser Val Ala Glu His Phe Leu Glu
          115                      120                      125

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Gln Gln Met His Pro Thr Val Val Ile Ser Ala Tyr Arg Lys Ala Leu  
 130 135 140  
 Asp Asp Met Ile Ser Thr Leu Lys Lys Ile Ser Ile Pro Val Asp Ile  
 145 150 155 160  
 Ser Asp Ser Asp Met Met Leu Asn Ile Ile Asn Ser Ser Ile Thr Thr  
 165 170 175  
 Lys Ala Ile Ser Arg Trp Ser Ser Leu Ala Cys Asn Ile Ala Leu Asp  
 180 185 190  
 Ala Val Lys Met Val Gln Phe Glu Glu Asn Gly Arg Lys Glu Ile Asp  
 195 200 205  
 Ile Lys Lys Tyr Ala Arg Val Glu Lys Ile Pro Gly Gly Ile Ile Glu  
 210 215 220  
 Asp Ser Cys Val Leu Arg Gly Val Met Ile Asn Lys Asp Val Thr His  
 225 230 235 240  
 Pro Arg Met Arg Arg Tyr Ile Lys Asn Pro Arg Ile Val Leu Leu Asp  
 245 250 255  
 Ser Ser Leu Glu Tyr Lys Lys Gly Glu Ser Gln Thr Asp Ile Glu Ile  
 260 265 270  
 Thr Arg Glu Glu Asp Phe Thr Arg Ile Leu Gln Met Glu Glu Glu Tyr  
 275 280 285  
 Ile Gln Gln Leu Cys Glu Asp Ile Ile Gln Leu Lys Pro Asp Val Val  
 290 295 300  
 Ile Thr Glu Lys Gly Ile Ser Asp Leu Ala Gln His Tyr Leu Met Arg  
 305 310 315 320  
 Ala Asn Ile Thr Ala Ile Arg Arg Val Arg Lys Thr Asp Asn Asn Arg  
 325 330 335  
 Ile Ala Arg Ala Cys Gly Ala Arg Ile Val Ser Arg Pro Glu Glu Leu  
 340 345 350  
 Arg Glu Asp Asp Val Gly Thr Gly Ala Gly Leu Leu Glu Ile Lys Lys  
 355 360 365  
 Ile Gly Asp Glu Tyr Phe Thr Phe Ile Thr Asp Cys Lys Asp Pro Lys  
 370 375 380  
 Ala Cys Thr Ile Leu Leu Arg Gly Ala Ser Lys Glu Ile Leu Ser Glu  
 385 390 395 400  
 Val Glu Arg Asn Leu Gln Asp Ala Met Gln Val Cys Arg Asn Val Leu  
 405 410 415

Leu Asp Pro Gln Leu Val Pro Gly Gly Gly Ala Ser Glu Met Ala Val  
420 425 430

Ala His Ala Leu Thr Glu Lys Ser Lys Ala Met Thr Gly Val Glu Gln  
435 440 445

Trp Pro Tyr Arg Ala Val Ala Gln Ala Leu Glu Val Ile Pro Arg Thr  
450 455 460

Leu Ile Gln Asn Cys Gly Ala Ser Thr Ile Arg Leu Leu Thr Ser Leu  
465 470 475 480

Arg Ala Lys His Thr Gln Glu Asn Cys Glu Thr Trp Gly Val Asn Gly  
485 490 495

Glu Thr Gly Thr Leu Val Asp Met Lys Glu Leu Gly Ile Trp Glu Pro  
500 505 510

Leu Ala Val Lys Leu Gln Thr Tyr Lys Thr Ala Val Glu Thr Ala Val  
515 520 525

Leu Leu Leu Arg Ile Asp Asp Ile Val Ser Gly His Lys Lys Lys Gly  
530 535 540

Asp Asp Gln Ser Arg Gln Gly Gly Ala Pro Asp Ala Gly Gln Glu  
545 550 555

<210> 397

<211> 307

<212> PRT

<213> Homo sapiens

<400> 397

Arg Glu Ser Arg Ser Arg Ala Met Glu Glu Glu Ala Ser Ser Pro Gly  
5 10 15

Leu Gly Cys Ser Lys Pro His Leu Glu Lys Leu Thr Leu Gly Ile Thr  
20 25 30

Arg Ile Leu Glu Ser Ser Pro Gly Val Thr Glu Val Thr Ile Ile Glu  
35 40 45

Lys Pro Pro Ala Glu Arg His Met Ile Ser Ser Trp Glu Gln Lys Asn  
50 55 60

Asn Cys Val Met Pro Glu Asp Val Lys Asn Phe Tyr Leu Met Thr Asn  
65 70 75 80

Gly Phe His Met Thr Trp Ser Val Lys Leu Asp Glu His Ile Ile Pro  
85 90 95

Leu Gly Ser Met Ala Ile Asn Ser Ile Ser Lys Leu Thr Gln Leu Thr

100					105					110					
Gln	Ser	Ser	Met	Tyr	Ser	Leu	Pro	Asn	Ala	Pro	Thr	Leu	Ala	Asp	Leu
		115					120					125			
Glu	Asp	Asp	Thr	His	Glu	Ala	Ser	Asp	Asp	Gln	Pro	Glu	Lys	Pro	His
	130					135					140				
Phe	Asp	Ser	Arg	Ser	Val	Ile	Phe	Glu	Leu	Asp	Ser	Cys	Asn	Gly	Ser
145					150					155					160
Gly	Lys	Val	Cys	Leu	Val	Tyr	Lys	Ser	Gly	Lys	Pro	Ala	Leu	Ala	Glu
			165						170					175	
Asp	Thr	Glu	Ile	Trp	Phe	Leu	Asp	Arg	Ala	Leu	Tyr	Trp	His	Phe	Leu
			180					185					190		
Thr	Asp	Thr	Phe	Thr	Ala	Tyr	Tyr	Arg	Leu	Leu	Ile	Thr	His	Leu	Gly
	195						200					205			
Leu	Pro	Gln	Trp	Gln	Tyr	Ala	Phe	Thr	Ser	Tyr	Gly	Ile	Ser	Pro	Gln
	210					215					220				
Ala	Lys	Gln	Trp	Phe	Ser	Met	Tyr	Lys	Pro	Ile	Thr	Tyr	Asn	Thr	Asn
225					230					235					240
Leu	Leu	Thr	Glu	Glu	Thr	Asp	Ser	Phe	Val	Asn	Lys	Leu	Asp	Pro	Ser
			245						250				255		
Lys	Val	Phe	Lys	Ser	Lys	Asn	Lys	Ile	Val	Ile	Pro	Lys	Lys	Lys	Gly
		260					265					270			
Pro	Val	Gln	Pro	Ala	Gly	Gly	Gln	Lys	Gly	Pro	Ser	Gly	Pro	Ser	Gly
	275					280						285			
Pro	Ser	Thr	Ser	Ser	Thr	Ser	Lys	Ser	Ser	Ser	Gly	Ser	Gly	Asn	Pro
	290					295					300				
Thr	Arg	Lys													
305															

<210> 398  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<400> 398  
 agaattcggc acgaggattg cctatctcca gtgcaacaac catcaagtgt gctgaaagtc 60  
 ttcagccggg tgctgcagca gtggaagaaa gggctacagg tccagtcttg ataagcaccg 120  
 ccgactttga ggggcctatg cccagtgcgc cccagaagc tgaaagtcct cttgcctcaa 180  
 ccagcaagga ggagaaggat gaatgtgctc tcatttccac tagcatagca gaagaatgtg 240

```

aggcttctgt ttccggtgta gttgttgaaa gtgaaaatga gcgagctggc acagtcacgg 300
aagaaaaaga cgaggagtggc atcatctcta cgagctcggt ggaagactgt gagggcccag 360
tgtccagtgc tgtccctcaa gaggaaggcg acccctcagt cacaccagcg gaagag      416

```

```

<210> 399
<211> 259
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(259)
<223> n = A,T,C or G

```

```

<400> 399
caaagaattc ggcacgaggg ggcgacctgc attcggaagt caccgaggcc atgctgtacg 60
aaaagttcag ccccgcgggg cctgtgctgt ncatccgggt ctgcgngat atgatcacc 120
ggcgctccct gggctatgcc tacgncaact tccanccaacc ggcggaagct gatcgggctt 180
tggaacacat gaactttgat gtgattnagg gaaanccaat ccttatcttg tnnnaatcat 240
aggatcctt ctttgacaa      259

```

```

<210> 400
<211> 410
<212> DNA
<213> Homo sapiens

```

```

<400> 400
ggcacgaggg gagagcggac cccagagagc cctgagcagc cccaccgccc ccgcccgcct 60
agttaccatc acaccccggg aggagccgca gctgccgcag ccggccccag tcaccatcac 120
cgcaaccatg agcagcggag ccgagaccca gcagccgccc gccgcccccc ccgcccgcct 180
ccgcccctcag cgcgcgcgac accaagcccc gcactacggg cagcggcgca gggagcgggtg 240
gcccggggcgg cctcacatgg gcggcgccctg ccggcgggga caagaaggtc atcgcaacga 300
aggttttggg aacagtaaaa tggttcaatg taaggaacgg atatggtttc atcaacagga 360
atgacaccaa ggaagatgta tttgtacacc agactgccat aaagaagaat      410

```

```

<210> 401
<211> 433
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(433)
<223> n = A,T,C or G

```

```

<400> 401
ggnacgagga atcatggcgg ctgcgctggt cgtgctgctg ggattcgcgc tgctgggcac 60
ccacggagcc tccggggctg ccggcacagt cttcactacc gtagaagacc ttggctccaa 120
gatactctc acctgctcct tgaatgacag cgccacagag gtcacagggc accgctggct 180
gaaggggggc gtggtgctga aggaggacgc gctgcccgcc cagaaaacgg agttcaaggt 240
ggactccgac gaccagtggg gagagtactc ctgcgtcttc ctccccgagc ccatgggcac 300
ggccaacatc cagctccacg ggccctcccag agtgaaggcc gtgaagtcgt cagaacacat 360
caacgagggg gagacggcca tgctgggtctg caagtcagag tccgtgccac ctgtcactga 420
ctgggcctgg tac      433

```



<210> 402  
 <211> 434  
 <212> DNA  
 <213> Homo sapiens

<400> 402  
 ggcacgaggc tcggactgag caggactttc cttatcccag ttgattgtgc agaatacact 60  
 gcctgtcgct tgtcttctat tcaccatggc ttcttctgat atccagggtga aagaactgga 120  
 gaagcgtgcc tcaggccagg cttttgagct gattctcagc cctcgggtcaa aaggatctgt 180  
 tccagaattc cccctttccc ctccaaagaa gaagatctt tccctggagg aaattcagaa 240  
 gaaattagaa gctgcagaag aaagacgcaa gtcccatgaa gctgaggtct tgaagcagct 300  
 ggctgagaaa cgagagcagc agaaagaagt gcttcagaag gcaatagaag agaacaacaa 360  
 cttcagtaaa atggcagaag agaaactgac ccacaaaatg gaagctaata aagagaaccg 420  
 agaggcaca atgg 434

<210> 403  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<400> 403  
 ggcacgagga actgctgttg ccattcaaac cattgaggag catcctgcat cttttgactg 60  
 gagctctttt aagccaatgg gatttgaagt atcatttctg aagtttcttg aggagtctgc 120  
 agtgaagcag aagaaaaata ctgacaaaga ccattccgaat actggaaaca aaaaaggatc 180  
 ccattcaaat tcaagaaaaa atattgataa gactgctgtg actagtggaa atcatgtatg 240  
 tccttgtaaa gaaagcgaaa cgtttgtaaa gtttgccaat ccattcacagc ttcatgtcag 300  
 tgataatgta aaaattgttt tagacaagaa tcttaaaagt tgcactgagc ttgtcttaaa 360  
 gcaacttcag gaaatgaaac ctaccgtcag tctgaaaaaa cttgaagtac attcaaatga 420  
 tccagatatg tctgt 435

<210> 404  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

<400> 404  
 aaagaattcg gcacgaggcg ccgctccgcc acgaccaccg ccgcctcctg ccctgcagcc 60  
 accgccaccg cctgtgtcgc cgccgcctcg ggaccggctg tatgattagg ccacaatctt 120  
 caatgagtaa acatattcct caattctgtg gtgttcttg tcaacattt atggagtctt 180  
 tgaagggcag tggagattac tgccaggcac agcacgacct ctatgcagac aagtgaactg 240  
 tagaaactga ttactgtcc accaagaagc ccccataaga gtggttatcc tggacacaga 300  
 agtggtgaat tgaaatccac agagcatttt acaagagttc tgacctggat ggggtaaacc 360  
 tcagtgcact tcttttctgt tggcctcagt attactggat tgaagaattg ctgctt 416

<210> 405  
 <211> 435  
 <212> DNA  
 <213> Homo sapiens

<400> 405  
 ggcacgaggg ctgccggagg gtcgttttaa agggcccgcg cggttgccgc ccctcgggcc 60  
 gccatgtctg tatccgtgcc gctgtctctc ggctcctcg gcctggccgt cgccgagcct 120  
 gccgtctact tcaaggagca gtttctggac ggagacgggt ggacttcccg ctggatcgaa 180

```

tccaaacaca agtcagattt tggcaaattc gttctcagtt ccggcaagtt ctacggtgac 240
gaggagaaag ataaagggtt gcagacaagc caggatgcac gcttttatgc tctgtcggcc 300
agtttcgagc ctttcagcaa caaaggccag acgctgggtg tgcagttcac ggtgaaacat 360
gagcagaaca tcgactgtgg gggcggctat gtgaagctgt ttcctaatag tttggaccag 420
acagacatgc acgga                                     435

```

```

<210> 406
<211> 424
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(424)
<223> n = A,T,C or G

```

```

<400> 406
gccccaaaccc actccacctt actaccagac aaccttagcc aaaccattta cccaaataaa 60
gtataggcga tagaaattga aacctggcgc aatagatata gtaccgcaag ggaaagatga 120
aaaattataa ccaagcataa tatagcaagg actaaccctt ataccttctg cataatgaat 180
taactagaaa taactttgca aggagagcca aagctaagac ccccgaaacc agacgagcta 240
cctaagaaca gctaaaagag cacaccctgc tatgtagcaa aatagtggga agatttatag 300
gtagaggcga caaacctacc gagcctgggtg atagctgggt gtccaagata gaatcttagt 360
tcaactttta atttgccac agaaccctct aaatcccctt gnaaatttaa ctgntagtcc 420
aaag                                     424

```

```

<210> 407
<211> 423
<212> DNA
<213> Homo sapiens

```

```

<400> 407
gtcctaccg gcgcacgtgg tgcgcgcgt gctgcctccc gctcgccttg aaccagtg 60
ctgcagccat ggctcccggc cagctcgctt tatttagtgt ctctgacaaa accggccttg 120
tggaatttgc aagaaacctg accgctcttg gtttgaatct ggctcgttcc ggagggactg 180
caaaagctct cagggatgct ggtctggcag tcagagatgt ctctgagttg acgggatttc 240
ctgaaatgtt ggggggacgt gtgaaaactt tgcctcctgc agtccatgct ggaatcctag 300
ctcgtaatat tccagaagat aatgctgaca tggccagact tgatttcaat cttataagag 360
ttgttgccct caatctctat ccccttgtaa agacagtggc ttctccaggt gtaagtgttg 420
agg                                     423

```

```

<210> 408
<211> 424
<212> DNA
<213> Homo sapiens

```

```

<400> 408
gaaaaaaaaat agcttactga attctataag atgtgtggga atctcaccta tcaaaaatag 60
gtaaaaagag cctccaaacc tgctttgatt ttattcacct attcttttag gccaggaact 120
aatttacctc tcaactacct gtccctctt gctatcttgt ggagtctcta aagacaaagg 180
tataaagagc ttttggtagg tgaattaata atcaactaga tggcatttcc aaatgggatt 240
gcacatactg tggggcaagt cccaagtga cttcaaagt agacgtttat ttgagtaatc 300
cttcagatt aacaataatc ataatagcag ttaccacttc ctgagtactt tctatatgcc 360
atgtatttag cttgctcact tctttatgtg gattcttatt taatcttaat accaagatga 420

```

ggtg

424

&lt;210&gt; 409

&lt;211&gt; 398

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(398)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 409

```

gctcgactct tagcttgtcg gggacggtaa ccgggacccg gtgtctgtct ctgtcgctt 60
cgctctctaa tccctagcca ctatgogtga gtgcctctcc atccacgttg gccaggctgg 120
tgtccagatt ggcaatgcct gctgggagct ctactgcctg gaacacggca tccagcccga 180
tggccagatg ccaagtgaca agaccattgg gggaggagat gactcctca acaccttctt 240
cagtgaacg ggcgctggca agcacgtgcc ccgggctgng tttgtagact tggaaaccac 300
agtnattgat gaagntcgna ctggcaccta ccgcaggtc ttncaccctg ancanntcat 360
nacaggcaag gaagatgctg ncaaataact atgccga 398

```

&lt;210&gt; 410

&lt;211&gt; 423

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 410

```

gccccacccc acctgcccgc tggggctctc cgcgggagat ctcaccgttc tggagacagg 60
gctcgctcgc tctcacgctg cccggccagc ccgcttctct gcccgagacc atgaatctca 120
gtagcgccag tagcacggag gaaaaggcag tgacgaccgt gctctggggc tgcgagctca 180
gtcaggagag gcggacttgg accttcagac ccagctgga ggggaagcag agctgcaggc 240
tgttgcttca tacgatttgc ttgggggaga aagccaaaga ggagatgcat cgcgaggaga 300
tcctgcccc agcaaaccag gaggacaaga agatgcagcc ggtcaccatt gctcactcc 360
aggcctcagt cctccccatg gtctccatgg taggagtga gctttctccc ccagttactt 420
tcc 423

```

&lt;210&gt; 411

&lt;211&gt; 424

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(424)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 411

```

gcgaggcgga ctagcgggcg cgaggagcgg gccgagaggc cgtgcggggc gcgggcgcca 60
ggaccggccg aacgcagagg ttgattcttc accacactga aaccattagg aaaaatcctt 120
gtgggttaaca gcagaggctt cagagtgtaa cctgtactcg ggcctagaaa ttatttaaaa 180
tggcgactga tacgtctcaa ggtgaactcg tccatcctaa ggcactccca cttatagtag 240
gagctcagct gatccacgcg gacaagttag gtgagaaggt agaagatagc accatgccga 300
ttcgtcgaac tgtgaattct acccgggaaa ctctcccaa aagcaagctt gctgaagggg 360
aggaagaaan gccagaacca gacataagtt cagaggaatc tgtctccact gtagaagaac 420

```

aaga

424

&lt;210&gt; 412

&lt;211&gt; 430

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 412

```

ggcacgaggg gaagccggcg ccagttcgcg gggctccggg ccgccactca gagctatgag 60
ctacggccgc cccctccccg atgtggaggg tatgacctcc ctcaaggagg acaacctgac 120
ctaccgcacc tcgcccgcaca cgctgagggc cgtcttcgag aagtacgggc gcgtcggcga 180
cgtgtacatc ccgcgggatc gctacacca ggagtcggcg ggcttcgctt tcgttcgctt 240
tcacgacaag cgcgacgctg aggcgctat ggatgccatg gacggggccg tgctggacgg 300
ccgcgagctg cgggtgcaaa tggcgcgcta cggccgcccc ccggactcac accacagccg 360
cgggggaccg ccaccccgca ggtacggggg cggtggctac ggacgccgga gccgcagccc 420
taggcggcgt                                     430

```

&lt;210&gt; 413

&lt;211&gt; 429

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 413

```

ggcacgaggt cggcccggcc atcttgtggg aagagctgaa gcaggcgctc ttggctcggc 60
gcggcccgct gcaatccgtg gaggaacgcg ccgccgagcc accatcatgc ctgggcactt 120
acaggaaggc ttcggctgcg tggtcacca ccgattcgac cagttatttg acgacgaatc 180
ggaccccttc gaggtgctga aggcagcaga gaacaagaaa aaagaagccg gcgggggccc 240
cgttgggggc cctggggcca agagcgcagc tcaggccgcg gccagacca actccaacgc 300
ggcaggcaaa cagctgcgca agaggtccca gaaagaccgc aagaaccctc tgccccccag 360
cgttggcggt gttgacaaga aagaggagac gcagccgccc gtggcgctta agaaagaagg 420
aataagacg                                     429

```

&lt;210&gt; 414

&lt;211&gt; 429

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 414

```

ggcacgagga cgggcccggc tgccggcccc cgctctgccc tgcataataa aatggctaata 60
caggtgaatg gtaatgcggt acagttaaaa gaagaggaag aaccaatgga tacttccagt 120
gtaactcaca cagaacacta caagacactg atagaggcag gcctcccaca gaaggaggca 180
gaaagacttg atgaaatatt tcagacagga ttggtagctt atgtcgatct tgatgaaaga 240
gcaattgatg ctctcaggga atttaatgaa gaaggagctc tgtctgtact acagcagttc 300
aaggaaagtg acttatcaca tggttcagaac aaaagtgcac ttttatgtgg agttatgaag 360
acctacaggc agagagagaa acagggggagc aaggtgcaag agtccacaaa gggacctgat 420
gaagcgaaag                                     429

```

&lt;210&gt; 415

&lt;211&gt; 398

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

<222> (1)...(398)

<223> n = A,T,C or G

<400> 415

```
gcggctcgtaa gggctgagga tttttggtcc gcacgctcct gctcctgact caccgctgtt 60
cgctctcgcc gaggaacaag tcggtcagga agcccgcgcg caacagccat ggcttttaag 120
gataccggaa aaacacccgt ggagccggag gtggcaattc accgaattcg aatcacccta 180
acaagccgca acgtaaaatc cttggaaaag gtgtgtgctg acttgataag aggcgcaaaa 240
gaaaagaatc tcaaagtact ttgagaatca ctacaagaaa aactccttgt ggtgaagggt 300
ctaagacgtg ggatcgtttc cagatgagaa ttcacaagcg actcattgac ttgcacagtc 360
cttctgagat tgtaagcan attacttcca tcantatt 398
```

<210> 416

<211> 269

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(269)

<223> n = A,T,C or G

<400> 416

```
gccgagcgag gaagctgtga gtgcgcgggt gcggggtcgc attgtggcta cggctttgcg 60
tccccggcgg gcagccccag gctgggtccc gcctccgctc tccccaccgg cggggaaaagc 120
agctgggtgtg ggaggaaagg ctccatcccc cgccccctct ctcccgtgtg tggctggcan 180
gatcttttgg cagtcctgtg gnctcnctcc ccgnccggat cctnctgacc ctganattcn 240
nggtntnacn nnccgtncac gccttgntt 269
```

<210> 417

<211> 408

<212> DNA

<213> Homo sapiens

<400> 417

```
ggccgggaga accgttcgcg gaggaaaggc gaactagtgt tgggatggcc accaactggg 60
ggagcctctt gcaggataaa cagcagctag aggagctggc acggcaggcc gtggaccggg 120
ccctggtgta gggagtattg ctgaggacct cacaggagcc cacttcctcg gagtggtga 180
gctatgcccc attcacgctc ttccccctac tgggtcccag tgccctgctg gagcaagcct 240
atgctgtgca gatggacttc aacctgctag tggatgctgt cagccagaac gctgccttcc 300
tgagagcaaac tctttccagc accatcaaac aggatgactt taccgctcgt ctctttgaca 360
tccacaagca agtcctaaaa gagggcattg cccagactgt gttcctgg 408
```

<210> 418

<211> 402

<212> DNA

<213> Homo sapiens

<400> 418

```
gagccgggca gccgttccc gccccgagc aggagccggt gcgagcggag cagagccgag 60
gtcggggcgc gagcggagcc ggctgagcgg gcgccgagct cccgccatgg cccggaacac 120
gctgtcctcg cgcttcgcc gggtggacat cgacgaattt gacgagaaca aatttggtga 180
cgagcaggag gagggggcgg cggcggcggc ggagccaggc ccggaccgga gcgaggtgga 240
cgggctcctg cggcaagggg acatgcttcg ggcattccat gcagccttgc ggaactctcc 300
```

cgtcaacacc aagaatcaag ctgtgaagga gcgagcccag ggcgtggtgc tgaaagtgct 360  
 cacaaacttc aagagcagtg agattgagca ggctgtgcag tc 402

<210> 419  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<400> 419  
 gcccgggcta gcggcctggg ttgggctttg tagctgctcc gcaggcccag cccggggccgc 60  
 gctcgagag tcctaggcgg tgcgcggcct cctgcctcct ccctcctcgg cggtcgcggc 120  
 ccgcccggcct ccgcggtgcc tgccttcgct ctgaggttga ggagctcaag cttgggaaaa 180  
 tgggtgtgcat tccttgatc gtcattccag ttctgctctg gatctacaaa aaattcctgg 240  
 agccatatat ataccctctg gtttccccct tcgttaagtc gtatatggcc taaaaaaga 300  
 attcaaagaa atccaatgat ccaaacaaaa gggcaaaagt aaaaactttt aaaggggtgc 360  
 aagaacattg aatgggaat tacccaacca aaaaagggaa cccaac 406

<210> 420  
 <211> 371  
 <212> DNA  
 <213> Homo sapiens

<400> 420  
 cagccatcgt ggtgtgttct tgactccgct gctcgccatg tcttctcaca agactttcag 60  
 gattaagcga ttcctggcca agaaacaaaa gcaaaatcgt cccattcccc agtggattcg 120  
 gatgaaaact ggaaataaaa tcagggtacaa ctccaaaagg agacattgga gaagaaccaa 180  
 gctgggtcta taaggaattg cacatgagat ggcacacata tttatgctgt ctgaagggtca 240  
 cgatcatggt accatatcaa gctgaaaatg tcaccactat ctggagattt cgacgtgttt 300  
 tcctctctga atctgttatg aacacgttgg ttggctggat tcagtaataa atatgtaagg 360  
 cctttctttt t 371

<210> 421  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 421  
 Met Ser Ser His Lys Thr Phe Arg Ile Lys Arg Phe Leu Ala Lys Lys  
 5 10 15

Gln Lys Gln Asn Arg Pro Ile Pro Gln Trp Ile Arg Met Lys Thr Gly  
 20 25 30

Asn Lys Ile Arg Tyr Asn Ser Lys Arg Arg His Trp Arg Arg Thr Lys  
 35 40 45

Leu Gly Leu  
 50

<210> 422  
 <211> 12308

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 422

ttgttttcta	gcagtgacaa	gttcactttg	aatcaggata	tgtgtgtagt	ttgtggcagt	60
tttgccaag	gagcagaag	aagattactt	gcctgttctc	agtgtggtca	gtgttaccat	120
ccatactgtg	tcagtattaa	gatcactaaa	gtggttctta	gcaaagggtg	gaggtgtctt	180
gagtgcactg	tgtgtgaggc	ctgtgggaag	gcaactgacc	caggaagact	cctgctgtgt	240
gatgactgtg	acataagtta	tcacacctac	tgcctagacc	ctccattgca	gacagttccc	300
aaaggaggct	ggaagtgcaa	atgggtgtgt	tgggtgcagac	actgtggagc	aacatctgca	360
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gccttcctga ggagaaaatg cagactcagg gttccagtaa ccagtgatgg attcacccca 540
tctcccaaat aaagtttact tgtttttacat tcaaaaaaaaa aaaaaaaaaa ctcgag 596

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&lt;210&gt; 424

&lt;211&gt; 1549

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 424

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cgtgctgcct ggaacgcgct gcgggacgag gtgggccaacc tggcgctggc gctggaagcg 420
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&lt;210&gt; 425

&lt;211&gt; 4019

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 425

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5

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15

Val Cys Gly Ser Phe Gly Gln Gly Ala Glu Gly Arg Leu Leu Ala Cys  
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 Ser Gln Cys Gly Gln Cys Tyr His Pro Tyr Cys Val Ser Ile Lys Ile  
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 Thr Lys Val Val Leu Ser Lys Gly Trp Arg Cys Leu Glu Cys Thr Val  
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 Cys Glu Ala Cys Gly Lys Ala Thr Asp Pro Gly Arg Leu Leu Leu Cys  
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 Asp Asp Cys Asp Ile Ser Tyr His Thr Tyr Cys Leu Asp Pro Pro Leu  
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 Gln Thr Val Pro Lys Gly Gly Trp Lys Cys Lys Trp Cys Val Trp Cys  
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 Arg His Cys Gly Ala Thr Ser Ala Gly Leu Arg Cys Glu Trp Gln Asn  
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 Asn Tyr Thr Gln Cys Ala Pro Cys Ala Ser Leu Ser Ser Cys Pro Val  
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 Cys Tyr Arg Asn Tyr Arg Glu Glu Asp Leu Ile Leu Gln Cys Arg Gln  
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 Cys Asp Arg Trp Met His Ala Val Cys Gln Asn Leu Asn Thr Glu Glu  
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 Glu Val Glu Asn Val Ala Asp Ile Gly Phe Asp Cys Ser Met Cys Arg  
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 Pro Tyr Met Pro Ala Ser Asn Val Pro Ser Ser Asp Cys Cys Glu Ser  
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 Ser Leu Val Ala Gln Ile Val Thr Lys Val Lys Glu Leu Asp Pro Pro  
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 Lys Thr Tyr Thr Gln Asp Gly Val Cys Leu Thr Glu Ser Gly Met Thr  
 225 230 235 240  
 Gln Leu Gln Ser Leu Thr Val Thr Val Pro Arg Arg Lys Arg Ser Lys  
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 Pro Lys Leu Lys Leu Lys Ile Ile Asn Gln Asn Ser Val Ala Val Leu  
 260 265 270  
 Gln Thr Pro Pro Asp Ile Gln Ser Glu His Ser Arg Asp Gly Glu Met  
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 Asp Asp Ser Arg Glu Gly Glu Leu Met Asp Cys Asp Gly Lys Ser Glu  
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Ser Ser Pro Glu Arg Glu Ala Val Asp Asp Glu Thr Lys Gly Val Glu  
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 Thr Lys Arg Ser Val Ile Arg Lys Asp Ser Ser Gly Ser Ile Ser Glu  
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 Gln Leu Pro Cys Arg Asp Asp Gly Trp Ser Glu Gln Leu Pro Asp Thr  
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 Leu Val Asp Glu Ser Val Ser Val Thr Glu Ser Thr Glu Lys Ile Lys  
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 Lys Arg Tyr Arg Lys Arg Lys Asn Lys Leu Glu Glu Thr Phe Pro Ala  
 405 410 415  
 Tyr Leu Gln Glu Ala Phe Phe Gly Lys Asp Leu Leu Asp Thr Ser Arg  
 420 425 430  
 Gln Ser Lys Ile Ser Leu Asp Asn Leu Ser Glu Asp Gly Ala Gln Leu  
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 Leu Tyr Lys Thr Asn Met Asn Thr Gly Phe Leu Asp Pro Ser Leu Asp  
 450 455 460  
 Pro Leu Leu Ser Ser Ser Ser Ala Pro Thr Lys Ser Gly Thr His Gly  
 465 470 475 480  
 Pro Ala Asp Asp Pro Leu Ala Asp Ile Ser Glu Val Leu Asn Thr Asp  
 485 490 495  
 Asp Asp Ile Leu Gly Ile Ile Ser Asp Asp Leu Ala Lys Ser Val Asp  
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 His Ser Asp Ile Gly Pro Val Thr Asp Asp Pro Ser Ser Leu Pro Gln  
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 Pro Asn Val Asn Gln Ser Ser Arg Pro Leu Ser Glu Glu Gln Leu Asp  
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 Gly Ile Leu Ser Pro Glu Leu Asp Lys Met Val Thr Asp Gly Ala Ile  
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 Leu Gly Lys Leu Tyr Lys Ile Pro Glu Leu Gly Gly Lys Asp Val Glu  
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 Asp Leu Phe Thr Ala Val Leu Ser Pro Ala Asn Thr Gln Pro Thr Pro  
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Leu Pro Gln Pro Pro Pro Pro Thr Gln Leu Leu Pro Ile His Asn Gln  
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 Ser Ala Pro Thr Val Glu Gly Glu Asn Asp Thr Met Ser Asn Ala Gln  
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 690 695 700  
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 Glu Glu Phe Pro Asp Trp Thr Thr Arg Val Lys Gln Ile Ala Lys Leu  
 725 730 735  
 Trp Arg Lys Ala Ser Ser Gln Glu Arg Ala Pro Tyr Val Gln Lys Ala  
 740 745 750  
 Arg Asp Asn Arg Ala Ala Leu Arg Ile Asn Lys Val Gln Met Ser Asn  
 755 760 765  
 Asp Ser Met Lys Arg Gln Gln Gln Gln Asp Ser Ile Asp Pro Ser Ser  
 770 775 780  
 Arg Ile Asp Ser Glu Leu Phe Lys Asp Pro Leu Lys Gln Arg Glu Ser  
 785 790 795 800  
 Glu His Glu Gln Glu Trp Lys Phe Arg Gln Gln Met Arg Gln Lys Ser  
 805 810 815  
 Lys Gln Gln Ala Lys Ile Glu Ala Thr Gln Lys Leu Glu Gln Val Lys  
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 Asn Glu Gln Gln Gln Gln Gln Gln Gln Phe Gly Ser Gln His Leu  
 835 840 845  
 Leu Val Gln Ser Gly Ser Asp Thr Pro Ser Ser Gly Ile Gln Ser Pro  
 850 855 860  
 Leu Thr Pro Gln Pro Gly Asn Gly Asn Met Ser Pro Ala Gln Ser Phe  
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His	Lys	Glu	Leu	Phe	Thr	Lys	Gln	Pro	Pro	Ser	Thr	Pro	Thr	Ser	Thr		
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Ser	Ser	Asp	Asp	Val	Phe	Val	Lys	Pro	Gln	Ala	Pro	Pro	Pro	Pro	Pro		
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Ala	Pro	Ser	Arg	Ile	Pro	Ile	Gln	Asp	Ser	Leu	Ser	Gln	Ala	Gln	Thr		
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Ser	Gln	Pro	Pro	Ser	Pro	Gln	Val	Phe	Ser	Pro	Gly	Ser	Ser	Asn	Ser		
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Arg	Pro	Pro	Ser	Pro	Met	Asp	Pro	Tyr	Ala	Lys	Met	Val	Gly	Thr	Pro		
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Arg	Pro	Pro	Pro	Val	Gly	His	Ser	Phe	Ser	Arg	Arg	Asn	Ser	Ala	Ala		
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Pro	Val	Glu	Asn	Cys	Thr	Pro	Leu	Ser	Ser	Val	Ser	Arg	Pro	Leu	Gln		
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Met	Asn	Glu	Thr	Thr	Ala	Asn	Arg	Pro	Ser	Pro	Val	Arg	Asp	Leu	Cys		
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Ser	Ser	Ser	Thr	Thr	Asn	Asn	Asp	Pro	Tyr	Ala	Lys	Pro	Pro	Asp	Thr		
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Gln	Arg	Gln	Arg	Ile	Pro	Asp	Ser	Tyr	Ala	Arg	Pro	Leu	Leu	Thr	Pro		
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Pro	Pro	Ser	Ser	Gln	Asp	Pro	Tyr	Gly	Ser	Val	Ser	Gln	Ala	Ser	Arg		
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Arg	Leu	Ser	Val	Asp	Pro	Tyr	Glu	Arg	Pro	Ala	Leu	Thr	Pro	Arg	Pro		
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Ile	Asp	Asn	Phe	Ser	His	Asn	Gln	Ser	Asn	Asp	Pro	Tyr	Ser	Gln	Pro		
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Pro	Leu	Thr	Pro	His	Pro	Ala	Val	Asn	Glu	Ser	Phe	Ala	His	Pro	Ser		
				1155					1160					1165			

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Gly Arg Gln Glu Lys Gly Ser Gln Asp Ser Pro Ala Val Pro His Pro  
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Asp Ser Asp Asp Pro Ser Val Lys Glu Leu Asp Val Lys Asp Leu Glu  
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 Val Thr Asn Glu Val Lys Thr Glu Val Leu Ser Pro Asn Ser Lys Val  
 1875 1880 1885  
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 1890 1895 1900  
 Asp Thr Pro Cys Ser Gln Ala Ser Ala His Ser Asp Leu Asn Asp Gly  
 1905 1910 1915 1920  
 Glu Lys Thr Ser Leu His Pro Cys Asp Pro Asp Leu Phe Glu Lys Arg  
 1925 1930 1935  
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 1985 1990 1995 2000  
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 2020 2025 2030

Arg Val Asn His Val Phe Ser Gln Gly Val Gln Val Asn Pro Gly Leu  
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 2180 2185 2190  
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 2260 2265 2270  
 Thr Ala Lys Lys Ala Gly Arg Glu Phe Pro Glu Glu Asp Ala Glu Gln  
 2275 2280 2285  
 Leu Lys His Val Thr Glu Gln Gln Ser Met Val Gln Lys Gln Leu Glu  
 2290 2295 2300  
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 2305 2310 2315 2320

Arg Ile Lys Gln Gln Gln Gln Cys Ala Met Ala Pro Pro Thr Met Met  
 2325 2330 2335  
 Pro Ser Val Gln Pro Gln Pro Pro Leu Ile Pro Gly Ala Thr Pro Pro  
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 2370 2375 2380  
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 Asn Leu Ser Gly Thr Ser Phe Gln Gln Ser Pro Val Arg Pro Ser Phe  
 2595 2600 2605

Gln Met Gln Gly Gly Phe Gly Cys Gly Asn Gln Leu Pro Lys Thr Asp  
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Gly Gly Ser Glu Thr Lys Lys Gln Arg Ser Lys Arg Thr Gln Arg Thr  
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 Lys Pro Phe Gln Leu Pro Phe Arg Pro Gln Asp Asp Leu Leu Ala Arg  
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 Ala Leu Ala Gln Gly Pro Lys Thr Val Asp Val Pro Ala Ser Leu Pro  
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 3125 3130 3135  
 Lys Glu Glu Pro Pro Glu Pro Val Pro Ser Pro Ile Ile Pro Ile Leu  
 3140 3145 3150  
 Pro Ser Thr Ala Gly Lys Ser Ser Glu Ser Arg Arg Asn Asp Ile Lys  
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 Thr Glu Pro Gly Thr Leu Tyr Phe Ala Ser Pro Phe Gly Pro Ser Pro  
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 3185 3190 3195 3200  
 Thr Ala Ala Glu Asn Ile Ser Ser Val Val Ala Ala Phe Ser Asp Leu  
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 Leu His Val Arg Ile Pro Asn Ser Tyr Glu Val Ser Ser Ala Pro Asp  
 3220 3225 3230  
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 3235 3240 3245  
 Glu Tyr Arg Gln His Leu Leu Leu Arg Gly Pro Pro Pro Gly Ser Ala  
 3250 3255 3260  
 Asn Pro Pro Arg Leu Val Ser Ser Tyr Arg Leu Lys Gln Pro Asn Val  
 3265 3270 3275 3280  
 Pro Phe Pro Pro Thr Ser Asn Gly Leu Ser Gly Tyr Lys Asp Ser Ser  
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 3300 3305 3310  
 Cys Lys Val Val Ile Leu Gly Ser Gly Val Arg Lys Ser Phe Lys Asp  
 3315 3320 3325  
 Leu Thr Leu Leu Asn Lys Asp Ser Arg Glu Ser Thr Lys Arg Val Glu  
 3330 3335 3340  
 Lys Asp Ile Val Phe Cys Ser Asn Asn Cys Phe Ile Leu Tyr Ser Ser  
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 3365 3370 3375  
 Pro Gln Ser Pro Met Arg Glu Thr Pro Ser Lys Ala Phe His Gln Tyr  
 3380 3385 3390  
 Ser Asn Asn Ile Ser Thr Leu Asp Val His Cys Leu Pro Gln Leu Pro  
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 Val Lys Leu Lys Pro Arg Leu Arg Ala Val His Gly Gly Phe Glu Asp  
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 Cys Arg Pro Leu Asn Lys Lys Trp Arg Gly Met Lys Trp Lys Lys Trp  
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Ser Ile His Ile Val Ile Pro Lys Gly Thr Phe Lys Pro Pro Cys Glu  
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 3570 3575 3580  
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&lt;211&gt; 174

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&lt;210&gt; 428

&lt;211&gt; 6476

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 428

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tggtagaatt tgtttgttta cactatgata ctttctaaat aaactctttt ttttaaaaaa 2820
aaaaaaaaaa aaaaaaactc gag                                     2843

```

```

<210> 431
<211> 640
<212> DNA
<213> Homo sapiens

```

```

<400> 431
ggtaacgtta tagtatttgt cagaagttgg ggtctccgtg ggcattgtga tccgtcccag 60
gcagtggatt aggaggccag aaggagatcc cttccacggt gctaggctga gatggatcct 120
ctcagggccc aacagctggc tgcggagctg gaggtggaga tgatggccga tatgtacaac 180
agaatgacca gtgcctgcca ccggaagtgt gtgcctcctc actacaagga agcagagctc 240
tccaagggcg agtctgtgtg cctggaccga tgtgtctcta agtacctgga catccatgag 300
cggatgggca aaaagttgac agagttgtct atgcaggatg aagagctgat gaagaggggtg 360
cagcagagct ctgggcctgc atgaggtccc tgtcagtata caccctgggg tgtacccac 420
cccttcccac ttttaataaac gtgctccctg ttgggtgtca tctgtgaaga ctgccaggcc 480
taggctctct gtagagagtc ttcaagatcc cggagtggta gcgctgtctc ctgggtgaagg 540
agtatttgtc acaactggaat gtgactgtgt gtgtatgtat gtgtatatat atatatatat 600
atatatataa acaagtttgt tgacacctac aaaaaaaaaa 640

```

```

<210> 432
<211> 2068
<212> DNA
<213> Homo sapiens

```

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<400> 432
cctcagaagt ccgtgccagt gaccggaggc ggcggcggcg agcggttcct tgtgggctag 60
aagaatcctg caaaaatgtc tctctatcca tctctcgaag acttgaaggt agacaaagta 120
attcaggctc aaactgtctt ttctgcaaac cctgccaatc cagcaatttt gtcagaagct 180
tctgtcctta tccctcacga tggaaatctc tatcccagac tgtatccaga gctctctcaa 240
tacctggggc tgagttaaaa tgaagaagaa atactgtcaa atgtggccgt ggtttctggt 300
gcaccacttc aggggcagtt ggtagcaaga ccttccagta taaactatat ggtggctcct 360
gtaactggta atgatgttgg aattcgtaga gcagaaatta agcaagggat tctgtgaagtc 420
attttgtgta aggatcaaga tggaaaaatt ggactcaggc ttaaataaat agataatggt 480
atatttgttc agctagtcca ggctaattct ccagcctcat tggttggtct gagatttggt 540
gaccaagtac ttcagatcaa tggtgaaaac tgtgcaggat ggagctctga taaagcgcac 600
aaggtgctca aacaggcttt tggagagaag attaccatga ccattcgtga caggcccttt 660
gaacggacga ttaccatgca taaggatagc actggacatg ttggttttat ctttaaaaaa 720
ggaaaaataa catccatagt gaaagatagc tctgcagcca gaaatggtct tctcacggaa 780
cataacatct gtgaaatcaa tggacagaat gtcattggat tgaaggactc tcaaattgca 840
gacatactgt caacatctgg gactgtagtt actattacaa tcatgcctgc ttttatcttt 900
gaacatatta ttaagcggat ggcaccaagc attatgaaaa gcctaattga ccacaccatt 960
cctgagggtt aaaattcacg gcaccatgga aatgtagctg aacgtctcca gtttccttct 1020
ttggcaactt ctgtattatg cactggaagc cttcccggag ccagcgagca tatgctgcat 1080
gaggaccttt ctatcttaca ttatggctgg gaactctact ctttcatctg atacctgtt 1140
cagatttcaa aatagttgta gccttatcct ggttttacag atgtgaaact ttcaagagat 1200
ttactgactt tcctagaata gtttctctac tggaaacctg atgcttttat aagccattgt 1260
gattaggatg actgttacag gcttagcttt gtgtgaaaac cagtcacctt tctcctaggt 1320
aatgagtagt gctgttcata ttactttagt tctatagcat actgcatctt taacatgcta 1380
tcatagtaca tttagaatga ttgcctttga tttttttttt aaattctgtg tgtgtgtgtg 1440
taaaatgcc aattaagaaca ctggtttcat tccatgtaag cattaaacag tgtatgtagg 1500

```

```

tttcaagaga ttgtgatgat tcttaaattt taactacott cacttaatat gcttgaactg 1560
tcgccttaac tatgttaagc atctagacta aaagccaaaa tataattatt gctgcctttc 1620
taaaaaccca aaatgtagtt ctctattaac ctgaaatgta cactagccca gaacagttta 1680
atggtactta ctgagctata gcatagctgc ttagttgttt ttgagagttt ttagtcaaca 1740
cataatggaa acttctttct tctaaaagtt gccagtgcc cttttaagaa gtgaatcact 1800
atatgtgatg taaaagttat tacactaaac aggataaact tttgactccc cttttgttca 1860
tttgtggatt aagtgtgata atacttaatt ttggcatttg actcttaaga ttatgtaacc 1920
tagctacttt gggatggctc tagaatattt ttctgataac ttgttccttt tctgactcc 1980
tccttgcaaa caaaatgata gttgacactt tatcctgatt tttttcttct ttttgggtta 2040
tgtctattct aattaaatat gtataaat 2068

```

```

<210> 433
<211> 1723
<212> DNA
<213> Homo sapiens

```

```

<400> 433
tttctttgtt aagtcgttcc ctctacaaag gacttcctag tgggtgtgaa aggcagcggg 60
ggccacagag gggcgaggaga gatggccttc agcggttccc aggcctccca cctgagtcca 120
gctgtccctt tttctgggac tattcaagga ggtctccagg acggacttca gatcactgtc 180
aatgggaccg ttctcagctc cagtggaaac aggtttgctg tgaactttca gactggcttc 240
agtggaaatg acattgcctt ccacttcaac cctcggtttg aagatggagg gtacgtgggtg 300
tgcaacacga ggcagaacgg aagctggggg cccgaggaga ggaagacaca catgcctttc 360
cagaagggga tgccctttga cctctgcttc ctggtgcaga gctcagattt caaggtgatg 420
gtgaacggga tcctcttctg gcagctactc caccgcgtgc cttccaccg tgtggacacc 480
atctccgtca atggctctgt gcagctgtcc tacatcagct tccagaaccc ccgcacagtc 540
cctgttcagc ctgcctttcc acggtgcctg tctcccagcc tgtctgtttc ccaccaggc 600
ccagggggcg cagacaaaaa cctcccggcg tgtggcctgc caaccggct cccattaccc 660
agacagtcat ccacacagtg cagagcgccc ctggacagat gttctctact cccgccatcc 720
cacctatgat gtacccccac cccgcctatc cgatgccttt catcaccacc attctgggag 780
ggctgtaccc atccaagtc atctctctgt caggcactgt cctgcccagt gctcagaggt 840
tccacatcaa cctgtgctct gggaaccaca tgccttcca cctgaacccc cgttttgatg 900
agaatgctgt ggtccgcaac acccagatcg acaactcctg ggggtctgag gagcgaagtc 960
tgccccgaaa aatgcccttc gtccgtggcc agagcttctc agtgtggatc ttgtgtgaag 1020
ctcactgcct caaggtggcc gtggatggtc agcacctgtt tgaatactac catcgctga 1080
ggaacctgcc caccatcaac agaactggaag tggggggcga catccagctg acccatgtgc 1140
agacatagtc ggcttctctg ccctggggcc gggggctggg gtgtggggca gtctgggtcc 1200
tctcatcatc cccacttccc aggccagcc tttccaaccc tgcctgggat ctgggcttta 1260
atgcagagtc catgtccttg tctggtcctg cttctggcta cagccaccct ggaacggaga 1320
aggcagctga cggggattgc cttcctcagc cgcagcagca cctggggctc cagctgctgg 1380
aatcctacca tcccaggagg caggcacagc caggagagg ggaggagtgg gcagtgaaga 1440
tgaagcccca tgctcagtc cctcccatcc cccacgcagc tccaccccag tcccaagcca 1500
ccagctgtct gctcctgggt ggaggtggcc tcctcagccc ctctctctg acctttaacc 1560
tactctcac cttgcaaccg gcaccaaccc ttacccctc ctggaaagca ggcctgatgg 1620
cttcccactg gcctccacca cctgaccaga gtgttctctt cagaggactg gctcctttcc 1680
cagtgtcctt aaaataaaga aatgaaaatg cttgttggca cat 1723

```

```

<210> 434
<211> 1702
<212> PRT
<213> Homo sapiens

```

```

<400> 434
Ala Ala Val Leu Gln Ser Cys Thr Ala Phe Ile Glu Arg Tyr Gly Ile

```





290					295					300					
Met	Ala	Leu	Lys	Gly	Gly	Arg	Ala	Glu	Gly	Thr	Leu	Arg	Ser	Ala	Lys
305				310					315					320	
Ser	Glu	Glu	Ser	Leu	Thr	Ser	Leu	His	Ala	Val	Asp	Gly	Asp	Ser	Lys
				325				330					335		
Leu	Phe	Arg	Pro	Arg	Arg	Pro	Arg	Ser	Ser	Ser	Asp	Ala	Leu	Ser	Ala
			340					345					350		
Ser	Phe	Asn	Gly	Glu	Met	Leu	Gly	Asn	Arg	Cys	Asn	Ser	Tyr	Asp	Asn
		355					360					365			
Leu	Pro	His	Asp	Asn	Glu	Ser	Glu	Glu	Glu	Gly	Gly	Leu	Leu	His	Ile
	370					375					380				
Pro	Ala	Leu	Met	Ser	Pro	His	Ser	Ala	Glu	Asp	Val	Asp	Leu	Ser	Pro
	385					390					395				400
Pro	Asp	Ile	Gly	Val	Ala	Ser	Leu	Asp	Phe	Asp	Pro	Met	Ser	Phe	Gln
			405						410					415	
Cys	Ser	Pro	Pro	Lys	Ala	Glu	Ser	Glu	Cys	Leu	Glu	Ser	Gly	Ala	Ser
			420					425					430		
Phe	Leu	Asp	Ser	Pro	Gly	Tyr	Ser	Lys	Asp	Lys	Pro	Ser	Ala	Asn	Lys
		435					440					445			
Lys	Asp	Ala	Glu	Thr	Gly	Ser	Ser	Gln	Cys	Gln	Thr	Pro	Gly	Ser	Thr
	450					455					460				
Ala	Ser	Ser	Glu	Pro	Val	Ser	Pro	Leu	Gln	Glu	Lys	Leu	Ser	Pro	Phe
	465					470					475				480
Phe	Thr	Leu	Asp	Leu	Ser	Pro	Thr	Glu	Asp	Lys	Ser	Ser	Lys	Pro	Ser
			485					490						495	
Ser	Phe	Thr	Glu	Lys	Val	Val	Tyr	Ala	Phe	Ser	Pro	Lys	Ile	Gly	Arg
			500					505					510		
Lys	Leu	Ser	Lys	Ser	Pro	Ser	Met	Ser	Ile	Ser	Glu	Pro	Ile	Ser	Val
		515					520					525			
Thr	Leu	Pro	Pro	Arg	Val	Ser	Glu	Val	Ile	Gly	Thr	Val	Ser	Asn	Thr
	530					535					540				
Thr	Ala	Gln	Asn	Ala	Ser	Ser	Ser	Thr	Trp	Asp	Lys	Cys	Val	Glu	Glu
	545					550					555				560
Arg	Asp	Ala	Thr	Asn	Arg	Ser	Pro	Thr	Gln	Ile	Val	Lys	Met	Lys	Thr
			565						570					575	
Asn	Glu	Thr	Val	Ala	Gln	Glu	Ala	Tyr	Glu	Ser	Glu	Val	Gln	Pro	Leu

580	585	590
Asp Gln Val Ala Ala Glu Glu Val Glu Leu Pro Gly Lys Glu Asp Gln		
595	600	605
Ser Val Ser Ser Ser Gln Ser Lys Ala Val Ala Ser Gly Gln Thr Gln		
610	615	620
Thr Gly Ala Val Thr His Asp Pro Pro Gln Asp Ser Val Pro Val Ser		
625	630	635
Ser Val Ser Leu Ile Pro Pro Pro Pro Pro Pro Lys Asn Val Ala Arg		
	645	650
Met Leu Ala Leu Ala Leu Ala Glu Ser Ala Gln Gln Ala Ser Thr Gln		
	660	665
Ser Leu Lys Arg Pro Gly Thr Ser Gln Ala Gly Tyr Thr Asn Tyr Gly		
	675	680
Asp Ile Ala Val Ala Thr Thr Glu Asp Asn Leu Ser Ser Ser Tyr Ser		
	690	695
Ala Val Ala Leu Asp Lys Ala Tyr Phe Gln Thr Asp Arg Pro Ala Glu		
705	710	715
Gln Phe His Leu Gln Asn Asn Ala Pro Gly Asn Cys Asp His Pro Leu		
	725	730
Pro Glu Thr Thr Ala Thr Gly Asp Pro Thr His Ser Asn Thr Thr Glu		
	740	745
Ser Gly Glu Gln His His Gln Val Asp Leu Thr Gly Asn Gln Pro His		
	755	760
Gln Ala Tyr Leu Ser Gly Asp Pro Glu Lys Ala Arg Ile Thr Ser Val		
	770	775
Pro Leu Asp Ser Glu Lys Ser Asp Asp His Val Ser Phe Pro Glu Asp		
785	790	795
Gln Ser Gly Lys Asn Ser Met Pro Thr Val Ser Phe Leu Asp Gln Asp		
	805	810
Gln Ser Pro Pro Arg Phe Tyr Ser Gly Asp Gln Pro Pro Ser Tyr Leu		
	820	825
Gly Ala Ser Val Asp Lys Leu His His Pro Leu Glu Phe Ala Asp Lys		
	835	840
Ser Pro Thr Pro Pro Asn Leu Pro Ser Asp Lys Ile Tyr Pro Pro Ser		
	850	855
Gly Ser Pro Glu Glu Asn Thr Ser Thr Ala Thr Met Thr Tyr Met Thr		

865		870		875		880
Thr Thr Pro Ala Thr Ala Gln Met Ser Thr Lys Glu Ala Ser Trp Asp						
	885			890		895
Val Ala Glu Gln Pro Thr Thr Ala Asp Phe Ala Ala Ala Thr Leu Gln						
	900			905		910
Arg Thr His Arg Thr Asn Arg Pro Leu Pro Pro Pro Pro Ser Gln Arg						
	915			920		925
Ser Ala Glu Gln Pro Pro Val Val Gly Gln Val Gln Ala Ala Thr Asn						
	930			935		940
Ile Gly Leu Asn Asn Ser His Lys Val Gln Gly Val Val Pro Val Pro						
	945			950		955
Glu Arg Pro Pro Glu Pro Arg Ala Met Asp Asp Pro Ala Ser Ala Phe						
		965		970		975
Ile Ser Asp Ser Gly Ala Ala Ala Ala Gln Cys Pro Met Ala Thr Ala						
		980		985		990
Val Gln Pro Gly Leu Pro Glu Lys Val Arg Asp Gly Ala Arg Val Pro						
		995		1000		1005
Leu Leu His Leu Arg Ala Glu Ser Val Pro Ala His Pro Cys Gly Phe						
	1010			1015		1020
Pro Ala Pro Leu Pro Pro Thr Arg Met Met Glu Ser Lys Met Ile Ala						
	1025			1030		1035
Ala Ile His Ser Ser Ser Ala Asp Ala Thr Ser Ser Ser Asn Tyr His						
		1045		1050		1055
Ser Phe Val Thr Ala Ser Ser Thr Ser Val Asp Asp Ala Leu Pro Leu						
		1060		1065		1070
Pro Leu Pro Val Pro Gln Pro Lys His Ala Ser Gln Lys Thr Val Tyr						
		1075		1080		1085
Ser Ser Phe Ala Arg Pro Asp Val Thr Thr Glu Pro Phe Gly Pro Asp						
	1090			1095		1100
Asn Cys Leu His Phe Asn Met Thr Pro Asn Cys Gln Tyr Arg Pro Gln						
	1105			1110		1115
Ser Val Pro Pro His His Asn Lys Leu Glu Gln His Gln Val Tyr Gly						
		1125		1130		1135
Ala Arg Ser Glu Pro Pro Ala Ser Met Gly Leu Arg Tyr Asn Thr Tyr						
		1140		1145		1150
Val Ala Pro Gly Arg Asn Ala Ser Gly His His Ser Lys Pro Cys Ser						

1155	1160	1165
Arg Val Glu Tyr Val Ser Ser Leu Ser Ser Ser Val Arg Asn Thr Cys 1170 1175 1180		
Tyr Pro Glu Asp Ile Pro Pro Tyr Pro Thr Ile Arg Arg Val Gln Ser 1185 1190 1195 1200		
Leu His Ala Pro Pro Ser Ser Met Ile Arg Ser Val Pro Ile Ser Arg 1205 1210 1215		
Thr Glu Val Pro Pro Asp Asp Glu Pro Ala Tyr Cys Pro Arg Pro Leu 1220 1225 1230		
Tyr Gln Tyr Lys Pro Tyr Gln Ser Ser Gln Ala Arg Ser Asp Tyr His 1235 1240 1245		
Val Thr Gln Leu Gln Pro Tyr Phe Glu Asn Gly Arg Val His Tyr Arg 1250 1255 1260		
Tyr Ser Pro Tyr Ser Ser Ser Ser Ser Ser Tyr Tyr Ser Pro Asp Gly 1265 1270 1275 1280		
Ala Leu Cys Asp Val Asp Ala Tyr Gly Thr Val Gln Leu Arg Pro Leu 1285 1290 1295		
His Arg Leu Pro Asn Arg Asp Phe Ala Phe Tyr Asn Pro Arg Leu Gln 1300 1305 1310		
Gly Lys Ser Leu Tyr Ser Tyr Ala Gly Leu Ala Pro Arg Pro Arg Ala 1315 1320 1325		
Asn Val Thr Gly Tyr Phe Ser Pro Asn Asp His Asn Val Val Ser Met 1330 1335 1340		
Pro Pro Ala Ala Asp Val Lys His Thr Tyr Thr Ser Trp Asp Leu Glu 1345 1350 1355 1360		
Asp Met Glu Lys Tyr Arg Met Gln Ser Ile Arg Arg Glu Ser Arg Ala 1365 1370 1375		
Arg Gln Lys Val Lys Gly Pro Val Met Ser Gln Tyr Asp Asn Met Thr 1380 1385 1390		
Pro Ala Val Gln Asp Asp Leu Gly Gly Ile Tyr Val Ile His Leu Arg 1395 1400 1405		
Ser Lys Ser Asp Pro Gly Lys Thr Gly Leu Leu Ser Val Ala Glu Gly 1410 1415 1420		
Lys Glu Ser Arg His Ala Ala Lys Ala Ile Ser Pro Glu Gly Glu Asp 1425 1430 1435 1440		
Arg Phe Tyr Arg Arg His Pro Glu Ala Glu Met Asp Arg Ala His His		

1445	1450	1455
His Gly Gly His Gly Ser Thr Gln Pro Glu Lys Pro Ser Leu Pro Gln		
1460	1465	1470
Lys Gln Ser Ser Leu Arg Ser Arg Lys Leu Pro Asp Met Gly Cys Ser		
1475	1480	1485
Leu Pro Glu His Arg Ala His Gln Glu Ala Ser His Arg Gln Phe Cys		
1490	1495	1500
Glu Ser Lys Asn Gly Pro Pro Tyr Pro Gln Gly Ala Gly Gln Leu Asp		
1505	1510	1515 1520
Tyr Gly Ser Lys Gly Ile Pro Asp Thr Ser Glu Pro Val Ser Tyr His		
1525	1530	1535
Asn Ser Gly Val Lys Tyr Ala Ala Ser Gly Gln Glu Ser Leu Arg Leu		
1540	1545	1550
Asn His Lys Glu Val Arg Leu Ser Lys Glu Met Glu Arg Pro Trp Val		
1555	1560	1565
Arg Gln Pro Ser Ala Pro Glu Lys His Ser Arg Asp Cys Tyr Lys Glu		
1570	1575	1580
Glu Glu His Leu Thr Gln Ser Ile Val Pro Pro Pro Lys Pro Glu Arg		
1585	1590	1595 1600
Ser His Ser Leu Lys Leu His His Thr Gln Asn Val Glu Arg Asp Pro		
1605	1610	1615
Ser Val Leu Tyr Gln Tyr Gln Pro His Gly Lys Arg Gln Ser Ser Val		
1620	1625	1630
Thr Val Val Ser Gln Tyr Asp Asn Leu Glu Asp Tyr His Ser Leu Pro		
1635	1640	1645
Gln His Gln Arg Gly Val Phe Gly Gly Gly Gly Met Gly Thr Tyr Val		
1650	1655	1660
Pro Pro Gly Phe Pro His Pro Gln Ser Arg Thr Tyr Ala Thr Ala Leu		
1665	1670	1675 1680
Gly Gln Gly Ala Phe Leu Pro Ala Glu Leu Ser Leu Gln His Pro Glu		
1685	1690	1695
Thr Gln Ile His Ala Glu		
1700		

&lt;210&gt; 435

&lt;211&gt; 160

&lt;212&gt; PRT

<213> Homo sapiens

<400> 435

Pro Phe Gln Gln Val Gly Arg Cys Asn Pro Ser Pro Gln Thr Arg Pro  
5 10 15

Gly Pro Ala Ser Lys Val Lys Gln Asp Met Pro Pro Pro Gly Gly Tyr  
20 25 30

Gly Pro Ile Asp Tyr Lys Arg Asn Leu Pro Arg Arg Gly Leu Ser Gly  
35 40 45

Tyr Ser Met Leu Ala Ile Gly Ile Gly Thr Leu Ile Tyr Gly His Trp  
50 55 60

Ser Ile Met Lys Trp Asn Arg Glu Arg Arg Arg Leu Gln Ile Glu Asp  
65 70 75 80

Phe Glu Ala Arg Ile Ala Leu Leu Pro Leu Leu Gln Ala Glu Thr Asp  
85 90 95

Arg Arg Thr Leu Gln Met Leu Arg Glu Asn Leu Glu Glu Glu Ala Ile  
100 105 110

Ile Met Lys Asp Val Pro Asp Trp Lys Val Gly Glu Ser Val Phe His  
115 120 125

Thr Thr Arg Trp Val Pro Pro Leu Ile Gly Glu Leu Tyr Gly Leu Arg  
130 135 140

Thr Thr Glu Glu Ala Leu His Ala Ser His Gly Phe Met Trp Tyr Thr  
145 150 155 160

<210> 436

<211> 396

<212> PRT

<213> Homo sapiens

<400> 436

Arg Ala Gln Glu Ala Ala Ala Ala Ala Asp Gly Pro Pro Ala Ala  
5 10 15

Asp Gly Glu Asp Gly Gln Asp Pro His Ser Lys His Leu Tyr Thr Ala  
20 25 30

Asp Met Phe Thr His Gly Ile Gln Ser Ala Ala His Phe Val Met Phe  
35 40 45

Phe Ala Pro Trp Cys Gly His Cys Gln Arg Leu Gln Pro Thr Trp Asn  
50 55 60

Asp Leu Gly Asp Lys Tyr Asn Ser Met Glu Asp Ala Lys Val Tyr Val  
65 70 75 80

Ala Lys Val Asp Cys Thr Ala His Ser Asp Val Cys Ser Ala Gln Gly  
                     85                    90                    95

Val Arg Gly Tyr Pro Thr Leu Lys Leu Phe Lys Pro Gly Gln Glu Ala  
                     100                    105                    110

Val Lys Tyr Gln Gly Pro Arg Asp Phe Gln Thr Leu Glu Asn Trp Met  
                     115                    120                    125

Leu Gln Thr Leu Asn Glu Glu Pro Val Thr Pro Glu Pro Glu Val Glu  
                     130                    135                    140

Pro Pro Ser Ala Pro Glu Leu Lys Gln Gly Leu Tyr Glu Leu Ser Ala  
                     145                    150                    155                    160

Ser Asn Phe Glu Leu His Val Ala Gln Gly Asp His Phe Ile Lys Phe  
                     165                    170                    175

Phe Ala Pro Trp Cys Gly His Cys Lys Ala Leu Ala Pro Thr Trp Glu  
                     180                    185                    190

Gln Leu Ala Leu Gly Leu Glu His Ser Glu Thr Val Lys Ile Gly Lys  
                     195                    200                    205

Val Asp Cys Thr Gln His Tyr Glu Leu Cys Ser Gly Asn Gln Val Arg  
                     210                    215                    220

Gly Tyr Pro Thr Leu Leu Trp Phe Arg Asp Gly Lys Lys Val Asp Gln  
                     225                    230                    235                    240

Tyr Lys Gly Lys Arg Asp Leu Glu Ser Leu Arg Glu Tyr Val Glu Ser  
                     245                    250                    255

Gln Leu Gln Arg Thr Glu Thr Gly Ala Thr Glu Thr Val Thr Pro Ser  
                     260                    265                    270

Glu Ala Pro Val Leu Ala Ala Glu Pro Glu Ala Asp Lys Gly Thr Val  
                     275                    280                    285

Leu Ala Leu Thr Glu Asn Thr Phe Asp Asp Thr Ile Ala Glu Gly Ile  
                     290                    295                    300

Thr Phe Ile Lys Phe Tyr Ala Pro Trp Cys Gly His Cys Lys Thr Leu  
                     305                    310                    315                    320

Ala Pro Thr Trp Glu Glu Leu Ser Lys Lys Glu Phe Pro Gly Leu Ala  
                     325                    330                    335

Gly Val Lys Ile Ala Glu Val Asp Cys Thr Ala Glu Arg Asn Ile Cys  
                     340                    345                    350

Ser Lys Tyr Ser Val Arg Gly Tyr Pro Thr Leu Leu Leu Phe Arg Gly  
                     355                    360                    365



Gly Lys Lys Val Ser Glu His Ser Gly Gly Arg Asp Leu Asp Ser Leu  
 370 375 380

His Arg Phe Val Leu Ser Gln Ala Lys Asp Glu Leu  
 385 390 395

<210> 437  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 437  
 Ala Glu Met Asp Pro Leu Arg Ala Gln Gln Leu Ala Ala Glu Leu Glu  
 5 10 15

Val Glu Met Met Ala Asp Met Tyr Asn Arg Met Thr Ser Ala Cys His  
 20 25 30

Arg Lys Cys Val Pro Pro His Tyr Lys Glu Ala Glu Leu Ser Lys Gly  
 35 40 45

Glu Ser Val Cys Leu Asp Arg Cys Val Ser Lys Tyr Leu Asp Ile His  
 50 55 60

Glu Arg Met Gly Lys Lys Leu Thr Glu Leu Ser Met Gln Asp Glu Glu  
 65 70 75 80

Leu Met Lys Arg Val Gln Gln Ser Ser Gly Pro Ala  
 85 90

<210> 438  
 <211> 303  
 <212> PRT  
 <213> Homo sapiens

<400> 438  
 Lys Asn Pro Ala Lys Met Ser Leu Tyr Pro Ser Leu Glu Asp Leu Lys  
 5 10 15

Val Asp Lys Val Ile Gln Ala Gln Thr Ala Phe Ser Ala Asn Pro Ala  
 20 25 30

Asn Pro Ala Ile Leu Ser Glu Ala Ser Ala Pro Ile Pro His Asp Gly  
 35 40 45

Asn Leu Tyr Pro Arg Leu Tyr Pro Glu Leu Ser Gln Tyr Met Gly Leu  
 50 55 60

Ser Leu Asn Glu Glu Glu Ile Arg Ala Asn Val Ala Val Val Ser Gly  
 65 70 75 80

Ala Pro Leu Gln Gly Gln Leu Val Ala Arg Pro Ser Ser Ile Asn Tyr  
85 90 95

Met Val Ala Pro Val Thr Gly Asn Asp Val Gly Ile Arg Arg Ala Glu  
100 105 110

Ile Lys Gln Gly Ile Arg Glu Val Ile Leu Cys Lys Asp Gln Asp Gly  
115 120 125

Lys Ile Gly Leu Arg Leu Lys Ser Ile Asp Asn Gly Ile Phe Val Gln  
130 135 140

Leu Val Gln Ala Asn Ser Pro Ala Ser Leu Val Gly Leu Arg Phe Gly  
145 150 155 160

Asp Gln Val Leu Gln Ile Asn Gly Glu Asn Cys Ala Gly Trp Ser Ser  
165 170 175

Asp Lys Ala His Lys Val Leu Lys Gln Ala Phe Gly Glu Lys Ile Thr  
180 185 190

Met Thr Ile Arg Asp Arg Pro Phe Glu Arg Thr Ile Thr Met His Lys  
195 200 205

Asp Ser Thr Gly His Val Gly Phe Ile Phe Lys Asn Gly Lys Ile Thr  
210 215 220

Ser Ile Val Lys Asp Ser Ser Ala Ala Arg Asn Gly Leu Leu Thr Glu  
225 230 235 240

His Asn Ile Cys Glu Ile Asn Gly Gln Asn Val Ile Gly Leu Lys Asp  
245 250 255

Ser Gln Ile Ala Asp Ile Leu Ser Thr Ser Gly Thr Val Val Thr Ile  
260 265 270

Thr Ile Met Pro Ala Phe Ile Phe Glu His Ile Ile Lys Arg Met Ala  
275 280 285

Pro Ser Ile Met Lys Ser Leu Met Asp His Thr Ile Pro Glu Val  
290 295 300

<210> 439

<211> 378

<212> PRT

<213> Homo sapiens

<400> 439

Val Val Pro Ser Thr Lys Asp Phe Leu Val Gly Val Lys Gly Ser Gly  
5 10 15

Gly His Arg Gly Gly Gly Glu Met Ala Phe Ser Gly Ser Gln Ala Pro  
20 25 30

Tyr Leu Ser Pro Ala Val Pro Phe Ser Gly Thr Ile Gln Gly Gly Leu  
 35 40 45  
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<400> 441

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<212> DNA
<213> Homo sapiens

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<213> Homo sapiens

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<212> DNA
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<223> n = A,T,C or G

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<400> 444

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<211> 716
<212> DNA
<213> Homo sapiens

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<211> 641
<212> DNA
<213> Homo sapiens

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<223> n = A,T,C or G

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641

<210> 447

<211> 652

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(652)

<223> n = A,T,C or G

<400> 447

```

gaattcgaac cccttcgctt ttagaaaatt gtatatgcag ctggatgaag gcagcctcac 60
ctttaatgcc aaccagatg agggagtga ctactttatg tccaagggtg tcctggatga 120
ttcgccaaag gaaatagcaa agtttatctt ctgtacaaga aactaaatt ggaaaaaact 180
gagaatctat cttgatgaaa ggagagatgt cttggatgac cttgtaacat tgcataattt 240
tagaaatcag ttcttgccaa atgcactgag agaatttttt cgtcatatcc atgcccctga 300
agagcgtgga gagtatcttg aaactcttat aacaaagtgc tcacatagat tctgtgcttg 360
caaccctgat ttaatgcgag aacttggcct tagtcctgat gctgtctatg tactgtgcta 420
ctctttgatt ctactttcca ttgacctcac tagccctcat gtgaagaata aaatgtcaaa 480
aagggaattt attcgaata cccgcgcgc tgctcaaaat attagtgaag aattttgtan 540
ggcatcttta tgacaatatc tacccttatt gggccatggn ggctggcata aaaaagcacc 600
aattggctaa ggactttcaa gttttttact ttcagaactt aaaagcttac cc 652

```

<210> 448

<211> 677

<212> DNA

<213> Homo sapiens

<400> 448

```

gaattcgaac cccttcggcg cctggcagag gtgaaggact ccctggacat cgagggtcaag 60
cagaacttca ttgacccccct ccagaacctg tgcgagaaag acctgaagga gatccagcac 120
cacctgaaga aactggaggg ccgccgcctg gactttgact acaagaagaa gcggcagggc 180
aagatccccg atgaggagct acgccaggcg ctggagaagt tcgaggagtc caaggagggtg 240
gcagaaacca gcatgcacaa cctcctggag actgacatcg agcagggtgag tcagctctcg 300
gccctggtgg atgcacagct ggactaccac cggcaggccg tgcagatcct ggacgagctg 360
gcggagaagc tcaagcgcag gatgcgggaa gcttctcac gccctaagcg ggagtataag 420
ccgaagcccc gggagccctt tgaccttga gagcctgagc agtccaacgg gggcttcccc 480
tgcaccacag cccccaagat cgcagcttca tcgtctttcc gatcttccga caagcccata 540
cggaccctta gccggagcat gccgcccctg gaccagccga gctgcaaggc gctgtacgac 600
ttcgagcccg agaacgacgg ggagctgggc ttcagtaggg cgacgtcatc acgctgacca 660
accagatcga tgagaac 677

```

<210> 449

<211> 603

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(603)

<223> n = A,T,C or G

```

<400> 449
ttttttgtan aaagagacat ttaataacttc tgttttacaaa attcaggcgt acatttcagt 60
ttgccctgga ccgtgcccac agctgtgtgc tcatctctgc gcccctcatg tacttctgac 120
gaggggggtg cagggcaggg cagagcagag cctggggtcc ggaggcttca ctggaccaca 180
gggggagggg aatgtgaatg tggcctggcc canagaactc cccatttcat cgattttgca 240
ttgggcgata gaggaagcag atgtcggggc tgccctgcctt ggtctanagg agatggctgg 300
ggccacttcc cacagggtga agtggcagcg gctcagcaag gggagcctgg ccaccagggg 360
ctgggacatg cgctcactgg aacctttgtg cttggccctc ggcagcgcgg ctgtgggtccc 420
gtgtgaggtg tgctgggggt ggggtgtggg ggctgggtgg ggcagcttgt gccagagtga 480
cacaggcctc cctgggttgg gatgggggca agttaaaaag ctgaaaagggt acttggcttt 540
ctgagggcgg gcttgggagc aggccctgca gganaccatg ttctctgtcc tcagcagatc 600
cac
603

```

```

<210> 450
<211> 678
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(678)
<223> n = A,T,C or G

```

```

<400> 450
gaattcgaac cccttcgcat caatataana tgccacccat ctgcagttaa tttcttttcc 60
tcatcatgtg attaaaagtg gtgattcagt ggggaactgg aatgttttta gctgggtgga 120
gaaggctgcc tacactgggc actgttttag attctcatat catttaaaca gcaaggaggt 180
tcagggaaga ataaccgtag ccttgggtaa tccactaggg cttttgtgag taggagagct 240
gatacctcac attcttagca ggtgaaaact tgccatgatg gaaacagata gtgaagagtt 300
actgacgtat cccaaattat atgtctgtgac ataaattccc agcatgcca gccctgattt 360
ctgagttcat aagtaattct agtgaacctt agtaggaatt ctgggtaaga aaatgaggtt 420
gccattggtc ttgtttgcat caccaagacc agacatccag aagagcccct caccttgaaa 480
agcagacaga ttttaaatta acccctcct tcccactcac cttcatctcc ctaagagttt 540
tggccattta attccacatt ttgaaaggaa tacattgggt aaatttgga agagaatctg 600
tgctatgcaa tgtttcatta aaatcttcag tttttcaagt ctctctaaaa ataatttgta 660
gatctatctt ggatggat
678

```

```

<210> 451
<211> 651
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(651)
<223> n = A,T,C or G

```

```

<400> 451
tttttcatca acaaaaatca agcattttcn tttttttgaa acaagaaaag cgcacgtan 60
aaaccaagat tctgtacaat attctaacat tatatgtaca taaaattata ttactcataa 120
ctatattgaa aagtcttatt tgtagaatat ggctggcaac aaagaaagac ccataccatt 180
tagcgtttga agcagggcag gtagcaagag aacattagca aagacacctt tgtgcctgga 240
tacacaatcc tgctactaag ttatgtgact aaccagcaca ctctaagttc tgtggtttgt 300
tcgttgtttc acattctagt aggggaattct gcagcagggc atgcgaaaaa naanacatgg 360

```

```

tcaaataaaa tgtgaaatgc tgtttaaaat ctgcatattg gctatgataa tgggtttgng 420
aatccaagtt gcattggaag ttcaactcatt ctccattcat tatgcatgcc tccagtgtatt 480
taatgaattt cagcaggngg aaaagacagc tttgaacaga tcagatgggc tgtgagtcan 540
attcttgatt ctttttcttc atttggtccc tgaatgttgc anaaaactgg tttgttacac 600
tggggaagga gagagtgaag accctccagt tggttcctca gtcagctccg t 651

```

```

<210> 452
<211> 679
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(679)
<223> n = A,T,C or G

```

```

<400> 452
gaattcgaac cccttcgcat tgctcagccn nctaccactg ctaagagcca tctccaccag 60
aagcctggcc agacctggaa gaacaaaagag catcatctct ctgacagaga gtttgtgttc 120
aaagaacctc agcaggtagt acgtagagct cctgagccac gagtgtattga cagagagggg 180
gtgtatgaaa tcagcctgtc acccacaggt gtatctaggg tctgtttgta tcttggtctt 240
gttgacgtga aagaagctga ctggatattg gaacagcttt gtcaagatgt tccctggaaa 300
cagaggaccg gcatcagaga ggatataact tatcagcaac caagacttac agcatgggtat 360
ggagaacttc cttacactta ttcaagaatc actatgggaa caaatcctca ctggcaccct 420
gtgctgcgca cactaaagaa ccgcattgaa gagaacactg gccacacctt caactcctta 480
ctctgcaatc tttatcgcaa tgagaaggac agcgtggact ggacacagtga tgatgaaccc 540
tcactaggga ggtgccccat tattgcttca ctaagttttg gtgccacacg cacatttgag 600
atgagaaaaga agccaccacc agaagagaat ggagactaca catatgtgga aagagtgaag 660
atacccttgg atcatgtga 679

```

```

<210> 453
<211> 630
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(630)
<223> n = A,T,C or G

```

```

<400> 453
gaattcgaac cccttcggaa ggccaagggg ntagaaggng gctccggccc cagctgtcgt 60
gaagaagcag gaggctaaga aagtgggtgaa tcccctgttt gagaaaaggc ctaagaattt 120
tggcattgga caggacatcc agcccaaaaag agacctcacc cgctttgtga aatggccccg 180
ctatatcagg ttgcagcggc agagagccat cctctataag cggctgaaag tgcctcctgc 240
gattaaccag ttcaaccagg ccctggaccg ccaaacagct actcagctgc ttaagctggc 300
ccacaagtac agaccagaga caaagcaaga gaagaagcag agactgttgg cccgggcccga 360
gaagaaggct gctggcaaaag gggacgtccc aacgaagaga ccacctgtcc ttcgagcagg 420
agttaacacc cgtcaccacc ttggtggaga acaagaaagc tcagctgggtg gtgattgcac 480
acgacgtgga tcccatcgag ctgggttgtct tcttgccctgc cctgtgtcgt aaaatggggg 540
tcccttactg cattatcaag ggaaaggcaa gactgggacg tctagtccac aggaagacct 600
gcaccactgt cgccttcac aggtgaactc 630

```

```

<210> 454

```

<211> 677  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(677)  
 <223> n = A,T,C or G

<400> 454  
 gaattcgaac cccttcgccc gcatgcggna catccccttg gccccagggg cagactggcg 60  
 cgatctgccc aacatcgagg tgcggctctc agacggcacc atggccagga agctgcggta 120  
 taccacccat gacaggaaga acggccgcag cagctctggg gccctccgtg gggctctgctc 180  
 ctgctggaag gccggcaaaag cctgcgaccc cgcagccagg cagttcaaca cctcatccc 240  
 ctgggtgctg cccacacccg ggaaccggca caaccactgg gctggcctct atggaaggct 300  
 cgagtgggac ggcttcttca gcacaaccgt caccaacccc gagcccatgg gcaagcaggg 360  
 ccgctgctc caccagagc agcaccgtgt ggtgagcgtg cgggagtggt cccgctccca 420  
 gggcttccct gacaactacc ggctcttcgg caacatccct gacaagcacc ggcagggtggg 480  
 caatgccgtg ccaccgcccc tggcaaaagg attggcttgg agatcaagct ttgtattgtt 540  
 ggccaaagcc cgagagagtg cctcagctaa aataaaggag gaggaagctg ctaaggacta 600  
 gttctgcctt cccgtcacc cttgttcttg caccaggaat cccccacaat gcacttgatg 660  
 gtggggtttt aacatgt 677

<210> 455  
 <211> 598  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(598)  
 <223> n = A,T,C or G

<400> 455  
 ttttttgggt tataggagag atttatttga agaaatatta caacatataa aaactacata 60  
 aagtcttaat ttccactcat acagtggtag atttgatata atgcataata aaaaactttt 120  
 aaaatccaga atgcacaaag tactgcacaa tttgatcact aaatcattag ttgataagcg 180  
 aacctcacac aacagcttca tgtcagccaa ggccacaaac accatgtacc acacatgtga 240  
 acggacagat tgacatgtta aaaacacaa atcagtgcac gttggggatt cctgggtgcca 300  
 gaaacagggg tgacgggagg gcagaactag tccttagcag cttcctcctc ctttatttta 360  
 gctgaggcac tctctcgggc tttggccaac atacaaagct tgatctccaa gccaatggct 420  
 ttggccaggg gcggtggcac ggcattgccc acctgccggg gcttngtcca ggatgttgcc 480  
 cgaagagccg gtaggtggtc aagggaagcc cctggggaag cgggcacact cccggacgct 540  
 naccacacgg tgctgntttt ggggtggagca ccgcggcctt gcttgcccat gggctcgg 598

<210> 456  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

<400> 456  
 ggaattcgaa ccccttcggg gcggggagcc ccgtagaacc gaggggggtc gcccgggggg 60  
 cccgggggag gtggagatgg tgaaggggca gccgttcgac gtggggccgc gctacacgca 120  
 gttgcagtac atcggcgagg gcgcgtacgg catggtcagc tcggcctatg accacgtgcg 180

```

caagactcgc gtggccatca agaagatcag ccccttogaa catcagacct actgccagcg 240
cacgctccgg gagatccaga tcctgctgcg cttccgccat gagaatgtca tcggcatccg 300
agacattctg cgggcgtcca ccctggaagc catgagagat gtctacattg tgcaggacct 360
gatggagact gacctgtaca agttgctgaa aagccagcag ctgagcaatg accatatctg 420
ctacttcctc taccagatcc tgcggggcct caagtacatc cactccgcca acgtgctcca 480
ccgagatcta aagccctcca acctgcttca tcaacaccac ctggcgacct ttaaaatttg 540
tgaatttccg gcctggcccc cggattgccc gaat 574

```

```

<210> 457
<211> 546
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(546)
<223> n = A,T,C or G

```

```

<400> 457
ttttttgaca catctctata tttatatatt agacgggtca gggaggtggc agggggcgccg 60
ggctctccac gccccccagc tccacttctg ctccaccacac acagaagcag cgagggcacg 120
cgaagtgaca gctttgacag ggaggggatt cggcccggcc tggctcctca gggatgctag 180
cccttgagac taaggaatgt tccttcaggg aaactagggt ggggtttgaa tganatgagg 240
ggggcaggca tggccctgag tccctactca gcgcccccca ccctccacct ctgcccttca 300
gcaggttggg gcagccagaa cccttccatt ccagaactgc cagagactgg gacgctgggg 360
aaggtaaggg gcagcagca gcagcgggag attgaaactgg ggccacctga gctcccgagg 420
ccccgtgggg agggcggggtg gggaggaaaa ggccctggcc tgccctgaagc tggaggcctc 480
agcaaaggag agaggtggcc agggccatgc tccaccccgg cctgggctgc caanggtccc 540
gggctg 546

```

```

<210> 458
<211> 674
<212> DNA
<213> Homo sapiens

```

```

<400> 458
gaattcgaac cccttcggta ttattaagaa ctaagagaat agcttgccag atacaaatgg 60
aaacaccttc caaatgagtc ggagaaaatg tcttgacagta ttatgggtaa aatagcaaag 120
agcttgggaa tacagtttgc taatatcaag tccttaacaa cgaccattct tcattcaaga 180
ttagttgtgt ataaatacat gcttcttcag gagttgactt agaaaacaag caaacaaca 240
aacatcagaa actatttaca actgggagca atccttgaag aacataaaga atataaatat 300
caacaaaggc tgaaaactct tttttagatt aaagatcaaa tggacatgtc atcggaatgt 360
attgtatggc tcttgattaa atcctggagc aaagtggaga gtgaggaaca actgtaaaga 420
atgtgaatac ggactgtgta ttagataaca gtaccataaa tttcctggat gggataatta 480
tgttgtagct atgtaagaga atattttgcc cttagaagat atatgatgaa gcatttagaa 540
gtaaagtatc atgacatctt gcaaataact ttcaagtgat tcagccagat atataaaaat 600
tatatataac acattatata atttatatat atataattat aatacattat ataatttata 660
cattataatt atat 674

```

```

<210> 459
<211> 682
<212> DNA
<213> Homo sapiens

```

```

<400> 459
tttttttaaa tccatggctt gttaattgtc atcccagtta tttacatgtg actatagaga 60
ctgcattctc ccagctgcca ggccgccagg gctttgccac tgggtataatt tataacacga 120
ctaattaaaa tgaatttgct tgcaataagg ttctgtgtgc tatttgtggg agaggagtta 180
ttaaaatfff cagtacagta atagtaaact tgaatgcaaa gtaataataa tcatacattt 240
ttaattacat gtttaatacc catttggtc atgtagaact attctgaaaa ttacttgga 300
tcagcacaat gtctttttgt gcttagtagt atccaaagac atccttctga atgggcttag 360
caatatgcac tgtcatcaag atacagctgt ttgatgcacg acacacagtg tgttcctatg 420
atactttgca caagatcagc tatgacaaat acaagttcat tttgcttatt gcaggcaa 480
aatgtccttt gcaggaaact ggatggagcc agaggccatt attctaagt aaatacctca 540
ggagtggaaa accaaatacc atatgttctc acttacaagt gggaaactaag ctatgggtac 600
acaaacgcat atagagtaat ggactctggc gactcatact acatattgag tacaatgtac 660
actacttggg tgatgggtgc ac 682

```

```

<210> 460
<211> 663
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(663)
<223> n = A,T,C or G

```

```

<400> 460
gaattcgaac cocttcgcgg ggcgcgcgag cgcgccagc tcggggcagc ggaaccacga 60
gaagctgagg gggcggttagc ggcgcgcgac gcgacgacga cgactcccgc gcgtgtgccc 120
agcctcttcc cgccgcagcc gcccttttcc tccctccctt acgtcccga gtgcggcagt 180
accgcctcct tcccagccgc ggggcttctt ccagacctct cggcgcgggg gagccctatt 240
cccagaggca ggtggtgctg accctgtaac ccaaaggagg aaacagctgg ctaagctcat 300
cattgttact ggtgggcacc atgtccttga agcttcaggc aagcaatgta accaacaaga 360
atgaccccaa gtccatcaac tctcgagtct tcattggaaa cctcaacaca gctctggtga 420
agaaatcaga tgtggagacc atcttctcta agtatggccg tgtggccggc tgttctgtgc 480
acaagggcta tgcctttgtt cagtactcca atgagcgcca tgcccgggca gctgtgctgg 540
gagagaatgg gcggggtgctg gccgggcaga ccctggacat caacatggct ggagagccta 600
agcctgacag acccaagggg ctaaaganaa gcagcatctg gcatatacag gctcttcgac 660
tac 663

```

```

<210> 461
<211> 612
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(612)
<223> n = A,T,C or G

```

```

<400> 461
ttttttggga tccaatctnt ttattgtcag ggtcccctcc ctgngggccc ccgccaacc 60
tatagaaaaa acccaagcct gggagtgtcc tggggagggg aggtagtatg gggaaacccc 120
tgtgctctac cctntggcct gggcagtgc nacaggagg gctcatgggg aaggagttag 180
ccagtaactc cacctgcana ggacatggca ctggctggga tgcgttgggg gaggaggcgc 240
ctgctgccag ctttcctntg gtaccogctg ggggggtggc tccagggttg ggtgcccggc 300

```

```

ttgaggcctg gggcagcgat gcccttcacc tgctggnggc cattgctcct gtcaggctgc 360
ttactgcaag gcccctcat ccgcgtctgt gtccctggctg tgttccagct cttcctcgt 420
gngtgtcagg agcccttcct catcgccgtc gtctcggtc cgtgcttccc cctggggcag 480
gcctgcctca naagttgtgt tctcttgggg ggctgggtgc cggttgttgc caccgcaccg 540
caccaccact ggcaccggca ccgntgcacc accaccgccg ccgccgccgn tggngccacc 600
ttcatcacc tt 612

```

```

<210> 462
<211> 672
<212> DNA
<213> Homo sapiens

```

```

<400> 462
gaattcgaac cccttcggat ggaagggggc ggggcagcgt cggggaaagg aagggccgga 60
ggcgcgggcg cgggcgggcg agagggggcg cgcgcgggcg ggcgcgggg ttcccgcgcc 120
gcggagcccc gcccagagag cgcgtccacg ttcctgcctc ctgctcccgc cgccctgggg 180
cgccgccatg acgcccgatc tgctcaactt cagccccaga tgtcaccaag ctctcggact 240
ctaacaagga gaacgcgctg cacagctaca gcaccagaa gggccccctg aaggcagggg 300
agcagcgggc gggctctgag gtcacagcc ggggtggccc tcggaaggcg gacgggcagc 360
gtcaggccct ggactacgtg gagctctcgc cgtgaccca ggcttccccg cagcggggccc 420
gcacccccag ccgcaactct gaccgccctg gccaaagcagg aggagctgga gcgggacctg 480
gcccagcgct ccgaggagcg gcgcaagtgg tttgaggcca cagacagcag gacccagag 540
gtgcctgctg gtgagggggc gcgcccgggc ctgggtgccc cctgactgag gaccagcaaa 600
accggcttag tgaggagatc gagaagaagt ggcaggagct ggagaagctt gcccttgccg 660
gagaataacc gg 672

```

```

<210> 463
<211> 562
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(562)
<223> n = A,T,C or G

```

```

<400> 463
ttttttaaaag tataaagtgt tttggaaaaa aaggaaaaan ntctatataa aaatctcttc 60
acatatataaa tcctgaagaa ggtgcaaggt gagaccagat gcgaggggcg tgctcagata 120
tgcatgtgtgt gtgtgtgtgt gtgtgtgtgt gtatccgtgt gtacatgtgt gcacgtgtgt 180
gcgtatgtgt ctgtgtgtct gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt ggtgggtgca 240
agtgcacgtg tggcccacag aggggtggga gaaagcttgg ctttttactt ccatccagga 300
gggaaggagg gcggctggtc ctccagcctg gagggtctgc agctgggcgg gacctctact 360
cagccaggct gttgcgcata gactccttct cctggagggc ggccatggca agacgcaggt 420
gtccttcag ctgctcgatc tcccgtctcag accgtgtctt gatgtggctc aactccacat 480
agacgtcctg gtactttccc naggtgaagc gcttgtcctt ctgcatcatc tggagctcgt 540
cccggaggca ctgcacctc ct 562

```

```

<210> 464
<211> 553
<212> DNA
<213> Homo sapiens

```

```

<400> 464

```

```
<210> 465
<211> 383
<212> DNA
<213> Homo sapiens
```

400 465						
tttttgggaag	aaaacacgat	ttttaatttt	tatttttttat	gggggacagn	gatcatttgc	60
cccaacagcc	atntgaagcc	aatagtcctg	attattaaaa	atcacaaagt	tatataaatg	120
ntctctctct	tttcgaaaac	catgttcatt	tttttcccaa	naaacagggc	tgtctgcaaa	180
gccttgaacg	gacagngtaa	cccatggagc	taacttogggt	tcatcaaagt	agngacagan	240
atgtttccaat	agganacaga	tcttntntgg	aagtatgaag	ccagngattg	tacacaaata	300
agctttttgcc	accactgtgc	ttggctcagg	acagcaaatag	gttgatatga	aattattagg	360
ctcattatatt	aggncgacat	tac				383

<400> 466						
gaattcgaac	cccttcgctc	cctcctgcac	gcaatggtgg	cctatgatcc	cgatgagaga	60
atcgccgccc	accaggccct	gcagcacccc	tacttccaag	aacagaggaa	aacagagaag	120
cgggctctgg	gcagccacag	aaaagctggc	tttcgggagc	accctgtggc	accggaacca	180
ctcagtaaca	gctgccagat	ttccaaggag	ggcagaaagc	agaaacagtc	cctaaagcaa	240
gaggaggacc	gtccaagag	acgaggaccg	gcctatgtca	tggaaactgc	caaactaaag	300
ctttcgggag	tggtcagact	gtcgtcttac	tccagcccca	cgctgcagtc	cgtgcttggg	360
tctggaacaa	atggaagagt	gccggtgctg	agacccttga	agtgcattcc	tgcgagcaag	420
aaggtagcgc	ggaaccagct	tctctgacgg	cgctgctctt	cgaccagcc	caggccgcga	480
ctgaattttt	tgtctgtaat	ttttctttga	cagacagatc	cgcagaagga	ccttaagcct	540
gccccgcagc	agtctgcct	gcccaccata	gtgcggaaag	gcggaagata	actgagcagc	600
accgtcgtct	cgacttcgga	ggcaacacca	agcccgaaccg	ggccaggcct	gggtgatctg	660
ctgctgagac	gcc					673

```
<210> 467
<211> 373
<212> DNA
<213> Homo sapiens
```



<220>  
 <221> misc\_feature  
 <222> (1)...(373)  
 <223> n = A,T,C or G

<400> 467  
 tttttactgg aacgacagct tatnttttaa taaaagtcag gggngtcagc agngtcactg 60  
 gtaanacatg atggcgctcc acgactgacc agcagcgctg ggaagggaca cgcanaaccc 120  
 accttccaac cagccccaac acatnacana aatgcctgct cgtttgtttt gattcatata 180  
 caaagttaca aagtatttcc tgccccaaat tnttaacgaa aatgaaagaa aaccctanaa 240  
 tgcggggggtt ttacaagtat attagccan aacatcctag gcagctgcnc gggccgcggg 300  
 tgcggcaggg cgcagggcaa cacccaaagc cccggccagc gcgaaacgga cgcaggcgca 360  
 tccccagccc tcc 373

<210> 468  
 <211> 573  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(573)  
 <223> n = A,T,C or G

<400> 468  
 gaattogaac cccttogetg ctgtcctact tgatgcttgt cactgtcatg atgtggcccc 60  
 tngctgtgta ccacogactg tgggatcgag catatgtgcg gctgaagcca gctctgcagc 120  
 ggctagactt cagtgtccgt ggctacatga tgtccaagca gagagagaga caattacgcc 180  
 gcagagctct ccaccagaa cgagccatgg acaaccacag tgacagcgaa gaggagcttg 240  
 ctgccttctg tcctcagctg gacgattcta ctgttgccag ggaattggcc atcacagact 300  
 ctgagcactc agacgctgaa gtctcctgta cacacaatgg cacattcaat ctttcaaggg 360  
 gccaaacacc tctaacggaa ggctctgaag acctagatgg tcacagtgat ccagaggaat 420  
 cctttgccag agaccttcca gacttccctt ccattaatat ggatcctgct ggccctggatg 480  
 atgangacga cactagcatt ggcatgccca gcttgatgta ccgttctccg ccaggggggct 540  
 gaggagcccc aaggccccac ctgccagccc ggg 573

<210> 469  
 <211> 635  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(635)  
 <223> n = A,T,C or G

<400> 469  
 tcncgatcta gaactaggtt ggacaggctt gctcaagttt caccagagtt antactggcc 60  
 tctgttcgca gagtttttag tttnacactg cagaattggc agactacacg gtttatggaa 120  
 gttgaagtag caataagatt gctgtatatg ttggcagaag ctcttccagt atctcatggt 180  
 gctcacttct caggtgatgt ttcaaaaagct agtgctttgc aggatatgat gcgaactgta 240  
 agtatactgg agataatttt gaccataaat ttctgttttc agtataagct aatgggagtt 300  
 ccttaattgt tagagcttag tatatgttaa taccggggca ttttgatgtt gcaataaata 360  
 agaagaggtt tcctaacttt ttcttgatct agctggtaac atcaggagtc agttcctatc 420

```

agcatacatc tgtgacattg gagttcttcg aaactgttgt tagatatgaa aagtttttca 480
cagttgaacc tcagcacatt ccatgtgtac taatggcttt cttagatcac agaggtctgc 540
ggcattccag ngcaaaagtt cggagcagga cggcttacct gttttctaga tttgtcaaat 600
ctctcaataa gcaaatgaat cctttccttg aggat 635

```

```

<210> 470
<211> 593
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(593)
<223> n = A,T,C or G

```

```

<400> 470
gaattcgaac ccttcggtat taacaaatat ntacatttct atttttataa tccataagga 60
tatgcctggt ttaaataaca tacatattaa caatatctat caggaaaacc ctcaagacag 120
cttctagtta aaaccttngn tgctgtcctc tcaaactata tttataaaaa tttgctaggg 180
ccaaatccat acttgcagaa taattcatca aattttattt ttaagngaaa agtaaccttt 240
caggcatttc agcagcatac attgacaatc taggggtatat atgtatgtat gtttcttatt 300
gtatgtctat atatgtatgt ggggaggaca ggagtgaatg ttcacacact tttcttgctg 360
actcaactaa attggagaat gtttctgaag aaaattggat gaaattagct gctgagattg 420
agtttctgcc ttaaactctg aaacaaaaaa agggacaaat tgctggtang atctactgac 480
tgtngccatc accagaacac ttagtttctt cccagacatg aatttcctga caggctctga 540
gccagaaaca cactgtgggc gtgcatntgg gtcaccctgg atatgcctcc act 593

```

```

<210> 471
<211> 581
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(581)
<223> n = A,T,C or G

```

```

<400> 471
tttttttaat cangggacat ttattaacat gcttcaaaag tgaccaaaagt gtccagccag 60
cacaatagcc gaggcaatca acgttctctt agtgtgtgat ctcgtcctaaa acaccaaata 120
aatagggttta ggaataacct caaataaatt gtaatttaac ttcgccccaaa attatacatc 180
ctctactgct cttccctgct cctgtaaaga tactagcggg aggggagaaa gctcaaatga 240
ctctgtaatt tagaattaca accagagaag aaataacttca agcacaataa agacgttcca 300
ttgaagagcg acattcattc tggaatgttt gttttgaaaa caactcttnt gggggaattc 360
aaaaggtagt gaacaaagca acataaagta agttttgggt tgttttgcaa aataaaaaata 420
tacaattgag tggaccagat ggcaaaaaca taccaattac aatctgaatg ctatatttaa 480
aacccttaaa ttctgaaggc ctgaatatca acaaacctat ttatgtttat gatcctaaaa 540
agacattaaa tattattaaa cccccaactt ccaaaacata g 581

```

```

<210> 472
<211> 674
<212> DNA
<213> Homo sapiens

```

<220>  
 <221> misc\_feature  
 <222> (1)...(674)  
 <223> n = A,T,C or G

<400> 472  
 gaattcgaac cccttcggat ggcgtgatgt ntcacagaaa gttctccgct cccagacatg 60  
 ggtccctcgg ctctctgcct cggaagcgca gcagcaggca tcgtgggaag gtgaagagct 120  
 tccctaagga tgaccctgcc aagccggtcc acctcacagc ctctctggga tacaaggctg 180  
 gcatgactca catcgtgcgg gaagtcgaca ggccgggata caaggtgaac aagaaggagg 240  
 tgggtggaggc tgtgaccatt gtagagacac caccatggt ggttgtgggc attgtgggct 300  
 acgtggaaac ccctcgaggc ctccggacct tcaagactgt ctttgcctgag cacatcagtg 360  
 atgaatgcaa gaggcgtttc tataagaatt ggcataaatc taagaagaag gcctttacca 420  
 agtactgcaa gaaatggcag gatgaggatg gcaagaagca gctggagaag gacttcagca 480  
 gcatgaagaa gtactgccaa gtcatccgtg tcattgcccc caccagatg cgctgcttc 540  
 ctctgcgcca gaagaagccc acctgatgga gatccagggt aacggaggca ctgtggccga 600  
 gaagctggac tgggccccgc gagangcttg agcacaggta cctgtgaacc aagtgtttgg 660  
 gcaggatgaa aatg 674

<210> 473  
 <211> 646  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(646)  
 <223> n = A,T,C or G

<400> 473  
 ttttttcagn ggaaaataac ttttattgan accccaccaa ctgcaaaatc tgttctctggc 60  
 attaaagctcc tnttccctt gcaattcggc ctttcttcag nggtcccatg aatgctttct 120  
 tctcctccat ggtctggaag cggccatggc caaacttgga ggnggtgtca atgaacttaa 180  
 ggtcaatctt ctccanagcc cgccgnttcg tctgcaccag caaggacttg cggagggtga 240  
 gcaccgctt cttggttccc accacacagc ctttcagcat gacaaagtca ttggtcactt 300  
 caccatagn gacaaagcca cccanagggt tgatgctctt gtcanatagg tcatagtcag 360  
 tggaggcatt gttcttgatc agcttgccgt ccttgataag gtagccctgg ccaatcttat 420  
 aaatcttctt gttgatctca gtgoggtgat ggtagccttt ctgccagcg cgtgccacag 480  
 agaaggctac acgagcagga tgccatgccc caatacaggc caccttgcg aggctcgg 540  
 gggctcttgcg gggcagcttc ttggtgtgcc aacgactggt gaccctttg tagcctttgc 600  
 ccttggtcac cccgatgacg tcgatcatct catcctgccc aaacac 646

<210> 474  
 <211> 544  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(544)  
 <223> n = A,T,C or G

<400> 474  
 gaattcgaac cccttcggca gcacactccc antcggccgc agcctgacac gccgcgcggc 60

```

ccccagttct cccgcggctg ctccccaggg catggcacag ggcctcgct cactatggca 120
gcagcacggc acagcacgct cgacttcatg ctcggcgcca aagctgatgg tgagaccatt 180
ctaaaaggcc tccagtcctat tttccaggag caggggatgg cggagtcggt gcacacctgg 240
caggaccatg gctatttagc aacctacaca aacaagaacg gcagctttgc caatttgaga 300
atttaccac atggattggg gttgctggac cttcagagtt atgatgggta tgcgcaaggc 360
aaagaagaga tcgacagtat ttgaacaaa gttagaggaa gaatgaaaga attgagtcag 420
gacaagtact gggcgggtga aacgattacc acctatagtg cgaggaggag ccatcgacag 480
atactggccc accgncgacg gggccttggt ttgaatatga catagaatga agtggtatat 540
gacg 544

```

<210> 475

<211> 578

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(578)

<223> n = A,T,C or G

<400> 475

```

gaattcgaac cccttcggga gaaccccatg ngggaacttc gcatccgcaa actctgtctc 60
aacatctgtg ttggggagag tggagacaga ctgacgcgag cagccaaggt gttggagcag 120
ctcacagggc agaccctgt gttttccaaa gctagataca ctgtcagatc ctttggcatc 180
cggagaaatg aaaagattgc tgtccactgc acagttcgag gggccaaggc agaagaaatc 240
ttggagaagg gtctaaagggt gcgggagtat gagttaagaa aaaacaactt ctcagatact 300
ggaaactttg gttttgggat ccaggaacac atcgatctgg gtatcaaata tgaccaagc 360
attggtatct acggcctgga cttctatgtg gtgctgggta ggccaggttt cagcatcgca 420
gacaagaagc gcaggacagg ctgcattggg gccaaacaca gaatcagcaa agaggaggcc 480
atgcgctggt tccagcagaa gtatgatggg atcatccttc ctggcaaata aattcccgtt 540
tctatccaaa agagcaataa aaagttttca gtgaaaaa 578

```

<210> 476

<211> 619

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(619)

<223> n = A,T,C or G

<400> 476

```

ggaattcgaa cccttcgct cctgcctgtc cgccatgttt tcaggncggg nctggcttgg 60
tcttcccccg taaggaaatg gccggggagc tccaggggac ccaggcgccg tcgcttcggc 120
ggagcctggg ctgaccagcc aggacagcgg ggtaaaccgg aacaattctg cgcgaggtag 180
ggaggccatg gcgtccggca gtaactggct ctccgggggtg aatgtcgtgc tggatgagc 240
ctacgggagc ctggtgtttg tactgtatatt tatttttgtg aagaggcaaa tcatgcgctt 300
tgcaatgaaa tctcgaaggg gacctcatgt ccctgtggga cacaatgcc ccaaggactt 360
gaaagaggag attgatattc gactctccag ggttcaggat atcaagtatg agccccagct 420
ccttgagat gatgatgcta gactactaca actggaaacc cagggaaatc aaagtgtgta 480
caactatctg tataggatga aagctctgga tgccattcgt acctctgaga tcccatttca 540
ttctgaaggc cggcatcccc gttccttaat gggcaagaat tttccgcttc taccttgctg 600
gatcttgcca aacactagt 619

```

<210> 477  
 <211> 674  
 <212> DNA  
 <213> Homo sapiens

<400> 477  
 gaattcgaac cccttcgggg tgttcgactg ctagagccga gcgaagcgat gcctaaatca 60  
 aaggaacttg tttcttcaag ctcttctggc agtgattctg acagtgaggt tgacaaaaag 120  
 ttaaagagga aaaagcaagt tgctccagaa aaacctgtaa agaaacaaaa gacaggtgag 180  
 acttcgagag ccctgtcatc ttctaaacag agcagcagca gcagagatga taacatgttt 240  
 cagattggga aaatgaggta cgtagtggtt cgcgatttta aaggcaaagt gctaattgat 300  
 attagagaat attggatgga tcctgaaggt gaaatgaaac caggaagaaa aggtatttct 360  
 ttaaatccag aacaatggag ccagctgaag gaacagattt ctgacattga tgatgcagta 420  
 agaaaactgt aaaattcgag ccatataaat aaaacctgta ctggttctagt tgttttaac 480  
 tgtcttttta cattggcttt tgttttctaa atgttctoca agctattgta tgtttggatt 540  
 gcagaagaat ttgtaagatg aatacttttt tttaatgtgc attattaaaa atattgagtg 600  
 aagctaattg tcaactttat taaggattac tttgtctgcc cacccttagt gtaaaataaa 660  
 atcaagtaat acat 674

<210> 478  
 <211> 663  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(663)  
 <223> n = A,T,C or G

<400> 478  
 tttttttaag ctttcacaat ttttattaaa tcctagtcta nttgaacaat atctgatgtt 60  
 acagacatca tcccatgggtg aacatgttta ataagtgaag gcaagtcaga catctcatct 120  
 aagtcattat tttctgcaga ctaagcaata actacacaga acactatggg taaacaaaca 180  
 cctgctcagt tttcacacaa gccatgttgt ttatcaaatt agatctgcta atattgaata 240  
 cagtagattc ggtgattgta gttctcatat aagtatctta ttgagataac attttgacag 300  
 tttcactgac tttccaaata agcataccat aatcaaagaa aagaataaag agtgaagtaa 360  
 aaactgaaca tgaagagatt aagttattaa aggaaaatga agtaaataaa aagagtgaag 420  
 aaccattggg ggtggaagtc aaacaagcct agacatttga ttggaagaga aaagatcaaa 480  
 tatgaagttc acaaaccaaa agttttataaa ctcaatgcaa tacaatcct ttttattgta 540  
 aaagctgagt tgaaactaaa agatctataa aaactgttac ttttggcctt aaacagtacc 600  
 aactcttatg atcaaaaaag gccacacagt taagattgna ttacttgatt ttattttaca 660  
 cta 663

<210> 479  
 <211> 673  
 <212> DNA  
 <213> Homo sapiens

<400> 479  
 gaattcgaac cccttcgaat gaagaactct ccagggatct agtgaataaa ctaaaaccct 60  
 acatgagctt cctgactcag tgcggtcccc tgtcagcgag catgcacaac gccatcaagt 120  
 tccttaacaa ggaaatcacc agtgtgggca gttccaagcg ggaagaggag gccaaagtcag 180  
 aacttcgagc agccattgat cggtatgtgc aagagaagat tgtgctagca gctcaggcaa 240

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tttcacgctt tgcttaccag aagatcagta atggagatgt gatcctggta tatggatgct 300
catctctggt atcacgaatt cttcaggagg cttggacaga gggccggcgg tttcgggtgg 360
tagtggtgga cagccggcca tggctggaag gaaggcacac actacgttct ctagtccatg 420
ctggtgtccc agcctcctac ctgctgattc ctgcagcctc ctatgtgctc ccagagggtt 480
ccaaggtgct attgggagct catgcaactt tggccaacgg gtctgtgatg tcacgggtag 540
ggacagcaca gttagccctg gtggctcgag ccataaatgt accagtgctg gtttgctgtg 600
aaacatacaa gttctgtgag cgtgtgcaga ctgatgcctt ttgtctctaa tgagctagat 660
gaccctgatg atc 673

```

```

<210> 480
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)..(203)
<223> n = A,T,C or G

```

```

<400> 480
gaattcgaac cccttcgggg ggaggaagag gaggtggagg aggaggggtga tgttgatagt 60
gatgaagaag aggangaaga tgangananc tcctcggagg gcttggaggc tgaggactgg 120
gccaggggag tagtggaggc cgntggcagc ttcggggcct atggtgcca ggaggaagcc 180
cantgcccta ctctgcattt cct 203

```

```

<210> 481
<211> 482
<212> DNA
<213> Homo sapiens

```

```

<400> 481
ccagacgctt cccatggagg cgtccagcga gccgccgctg gatgctaagt ccgatgtcac 60
caaccagctt gtagattttc agtggaaact gggatatggct gtgagctcag acacttgcat 120
atctcttaag tatccttacg ttgcagtgat gctaaaagtg gcagatcatt caggccaagt 180
aaagaccaag tgctttgaaa tgacgattcc acagtttcag aatttctaca gacagttcaa 240
gaaaattgct gcagttattg aaacgggtgtg aagacggatt ctttggttga taaattgcta 300
tcattctaaa gtcattggact tcactttcgg caacaaaact aaataaggat ggaacattta 360
ttgaatgaaa aatgcacttt tgtttttcca tttttttaaa taataaaaat cagacaaaca 420
gaaaaaaaaa aaaaaaaggg cggccgctcg agtctagagg gcccgtttaa acccgctgat 480
ca 482

```

```

<210> 482
<211> 505
<212> DNA
<213> Homo sapiens

```

```

<400> 482
aaaatcttta gctgccaaga aagaagttaa gactctcagt gctgagagag actgaatcca 60
cctaggtgat aaggtgactg gacccagtaa accctttgtg tgctgggggg ttttatgcct 120
tgtagaacct agtgtgagca agatttgggt accctacata cattcagtag ccaggaaagg 180
gtgattgatg tgccagactc tgctgctgg caaaaggatg agctgtagaa gctgaagtcc 240
taggtagtag atataaagaa gacaaattag gtggcacctt ctagactgtg caatgcatgg 300
atttgaatt gaatttttcc tctaattatt ctagggaac cctgggctaa gaaaccaatg 360
taaaacctga tgaggtagtc tgtagtcaca ctgggtagag gtagaggcaa ccacaaaatt 420

```

attcttaaga atgcctccca ggcgcctgga agatgaaact ttctggtgaa tatgagctca 480  
 tggtaaaaat ttaggtcgga tgca 505

<210> 483  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<400> 483  
 tgcaaaaagg taacaaattc ataactggaa agcaaaagaga agaacaagta tgatttggat 60  
 gataaagcat tgttttaatg gtgaaaactt cacagatcac taatgtttct agagggttaac 120  
 ttcaagtggg caagctgggg tttttaggtg gtcagtggcc tagttcctaa agccacagta 180  
 taggatctgt taaactgaat gtctgttgaa agtttgtttt agctgcttgg aggcttcctt 240  
 ttaagacaaa ctgtatgtga ttaagttgtt ttgagggaac tgaagaacct gatgtagccc 300  
 ctggccagat aactgcctga tttctcagat attattttctc tgggaaacat tctacatagc 360  
 acaggagctt aagagtggca ttatcttctc gccttaattt ccagagatta tttctgtact 420  
 gagaatcctg gaactactat gctaggaaat ttaagctgc atggtctgtc ttgttttcat 480  
 ttaattattg tgaataccta g 501

<210> 484  
 <211> 501  
 <212> DNA  
 <213> Homo sapiens

<400> 484  
 gcactaagac cactttctat gaggagcagg gtgactacta cagccagtac atccgggctt 60  
 gcttggaacca cctggccccc gactccaaga gttctgggaa ggggaagaag cagccttctc 120  
 ttcatcacac tgctgctcag ctcttggaag aggtgtctt ggtggaaatt gaagatcttc 180  
 ccgcctctca cttcagaaac gtcactcttg acatcacgcc gggagatgag gcaggaaagt 240  
 ttgaagtaaa tgccaagttc ctgggtgttg acatggagcg atttcagctt cactatcagg 300  
 atctcctgca gctccagtat gagggtgttg ctgtcatgaa actcttcaac aaggccaaag 360  
 tcaatgtcaa ccttctcctc ttctctctca acaagaagt tttgcggaag tgacagaggc 420  
 aaagggtgct acccaagccc ctcttacctc tctggatgct ttctttaaca ctaactcacc 480  
 actgtgcttc cctgcagaca c 501

<210> 485  
 <211> 504  
 <212> DNA  
 <213> Homo sapiens

<400> 485  
 cgcactcttg gaacattctt tctttcaaca acccaaggca tgcttctatc tccttttgag 60  
 gtttccctct aagtgttacc tctaagatag gcttttcttg gacactctat gatggaacct 120  
 ctaggatttt ctctattgtt ttatgcttat tttgatattt gattcctaga attttaaata 180  
 cattatatat catataaaat aaacctttta atattgaaat gaaaagataa aaatacatat 240  
 actaagtga taggtcaaaa gtgtgagatc atcttgaaca ttatcttgaa gagaagatac 300  
 caatttacct tctgctcaga tcatggtgta cgatatcaca acctgcctag aataactctc 360  
 cttttctgaa ccatttattc actacttttg tcttccaatt aaatattagc ctgacttcaa 420  
 atatcatata ttagtttctt ttgtttatgt aattgaatta tataacatat attcattaga 480  
 gcctattttt tttaaaattt ttgt 504

<210> 486  
 <211> 501  
 <212> DNA

<213> Homo sapiens

<400> 486

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gagaggtcac tatggcgctt ttctgcagga cgagtgggac ctgctccaaa gaatgatttt 60
gctggcccac gagaaactct ctgttcctgt cacgtgcaaa atccgtgtct tcccggagat 120
tgacaagacc gtgaggtacg cccagatgct ggagaaggcc ggctgccagt tgcgtacggg 180
gcacggacgc accaaggagc agaagggggc cctgtcgggt gcagcgctct gggagcatat 240
caaggctgtg cggaaggctg tggccatccc tgtgtttgct aacgggaaca tccagtgcct 300
gcaggacgtg gagcgctgcc tccgggacac ggggtgtgcag ggcgcatga gcgcagaggg 360
caacctgcac aaccccgccc tgttcgaggg ccggagccct gccgtgtggg agctggccga 420
ggagtatctg gacatcgtgc gggagcacc ctgccccctg tcctacgtcc gggccacct 480
cttcaagctg tggcaccaca c                                     501
```

<210> 487

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(501)

<223> n = A,T,C or G

<400> 487

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accattatct agcagcaaaa aggaaagttt gaagacatta acaggaactg gttaattgta 60
gtccttatct gaaaaggaca gattgaatgc agccaaatta tggcaaagaa atcagtagga 120
caacccctat aaagggtagt tcttttaaaa aaaatttctt tattggcaac aacataaaag 180
atatgaaaga atcactcata atttatcagc ataacatagc tattctcatt ttgcaattg 240
actttttagt tcttgaccaa atgtaatttt tattagttgt gattaactga ttttgtgctt 300
ttttttaaaa aaaaaaaaaa ctagaataag acatttgttt tgtaattat tataaatgac 360
tgtattcatt ctgtttatgt accataattt tggatgttcc tacgatgtta aacttttagg 420
ttgtttttaa ttgtttgttc ttatagacaa ctctgtaagg gnttttaact gcttttatca 480
ggagaatgtc aaagaagtcc t                                     501
```

<210> 488

<211> 148

<212> DNA

<213> Homo sapiens

<400> 488

```
attctaagga tgaaatggct acagagcaaa ctgcagctga gagaaaactg cttggagttt 60
ggacagaggt ggaattgagt gtccacaggc cagctgagga ggtggtaccc agcactctat 120
gaacccttcg ctcaagtcag cctggagt                                     148
```

<210> 489

<211> 501

<212> DNA

<213> Homo sapiens

<400> 489

```
gctgtggatt cccctccaag tggaggagga tgggcaggct ggggatcctg gggcaaactc 60
ctgctgtcgt cagcatctgc cacagtaggt catggattga cggcagtcga ggaaaaagca 120
ggagccactc tacggattca tgggtgtaaat tctggatctt ctgaaggagc ccaaccaaact 180
actgaaaacg gagtccctga aataacagat gcagccacag atcagggccc tgcagaaagc 240
```



```

ccaccactt ccccttcac agcctctcgg ggtatgctgt ctgccatcac caatgtgggt 300
caaaacacag gtaaaagtgt cttaactgga ggccttgatg cgttggaatt catcggaag 360
aaaaccatga atgtccttgc agaaagtgac ccgggcttta agcggacca gacgctcatg 420
gagagaactg tttccttgtc tcagatgtta agggaagcta aggagaagga gaagcagaga 480
ctggcacagc agctcacgat g                                     501

```

```

<210> 490
<211> 482
<212> DNA
<213> Homo sapiens

```

```

<400> 490
attgcaaact gaaagtggac aaagacttaa ggtaaacctg ctctcatgg tggaatgctt 60
ccaaatgctg gaaggaggac tttagggcag agttcactaa ggaggcttgt gcttatagat 120
cagtgggctt gaaagaagtt tctctaggtt ctggttgtgt gctgtacgag gtgtaggtag 180
taataatact cttgtcagcc acagtgaagc cccaagctag ccgggatagg ggactgacct 240
tgtacaggca gcatggagaa actaagacag agtgcctgc ccaagtgatg gcaactggga 300
gcagtcactc aggtttatct ccaccagggc ccaagaaaaa aagaaatgag gcaacctaaa 360
attccatcaa gatagatacc aatatccaag gtgcttggtc ttagcggtgt gggaccacg 420
ttaaggctct tggtgggaag gtgggaggtg ttttcagcat gagatagggt tcaggctgtg 480
aa                                     482

```

```

<210> 491
<211> 483
<212> DNA
<213> Homo sapiens

```

```

<400> 491
cgcctctccc cgtgatccct ctctcgctaa ccgtaggcgc ttttcgtgaa ggcccgggtt 60
tttacagcac ttgccttttc taaccacgaa cagtgcctgt tcgttcgcag ggccagcaag 120
gagagccccg ccccgcccg ccgcccgcg cccgcccgcg gccgccttg gatcccgcg 180
actccgcccc gcccgccctc cccaggcatg gcgcgctgc gcttctccgc caatctgtcc 240
tggtatttcc ccgagctccc cggcctcccc gcgcgggtgc gggccgcggg cagctcgggc 300
ttcgaggccg tcgaggtggc ctggccgtac gcggagacgc ctgaggcgct ggcgcgcgcc 360
gcgcgagaag cggggctgcg gcttgtactg atcaacacgc ccccgggaga ccaagagaag 420
ggggaaatgg ggctgggggc cgtccccggg agacaggcgg cttccgaga gggactggag 480
cag                                     483

```

```

<210> 492
<211> 266
<212> DNA
<213> Homo sapiens

```

```

<400> 492
acctcatctg ctttgctttg gcatgtgagc cttgcctaag ggggcatatc tgggtcccta 60
gaaggcccta gatgtggggc ttctagatta cccctcctc ctgccatacc cgcacatgac 120
aatggacca atgtgccaca cgctcgctct tttttacacc cagtgcctct gactctgtcc 180
ccatgggctg gtctccaaag ctctttccat tgcccaggga gggaaggttc tgagcaataa 240
agtttcttag atcaatcaaa aaaaaa                                     266

```

```

<210> 493
<211> 483
<212> DNA
<213> Homo sapiens

```

&lt;400&gt; 493

```

gccgctcgcg ctaggagagc gggcttcggg cacttgacat ggcggcagtg gcggcgactg 60
cagcagcgaa ggggaatggg ggcggcggtg gcagggccgg ggcgggggac gccagcgga 120
cgcggaagaa gaaggggccg gggcccctgg ccacggcgta cctggtcac tacaatgtgg 180
tgatgacagc cgggtggctg gttatagcgg ttggtctggt ccgagcatac ctggctaagg 240
gtagctacca tagcctttat tattcaattg aaaagccttt gaaattcttt caaactggag 300
ccttattgga gattttacat tgtgctatag gaattgttcc atcttctgtt gtcctgactt 360
ctttccaggt gatgtcaaga gtttttctaa tatgggcagt aacacatagc gtcaaagagg 420
tacagagtga agacagtgtc ctctgtttg ttattgcatg gacgatcacg gaaatcatcc 480
gtt 483

```

&lt;210&gt; 494

&lt;211&gt; 301

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 494

```

gtggctatatt tcatggaata tcttttatca gcctttcagt tttaatttat ttgtgtcttt 60
ggatctaaag tcagtttggt ttggacaatg ttagatttga tcatgatttt aaaaaatcta 120
ttctgaagct ggggtggttca cacctgtaat ccagcactt tgggaggatc tcttgagccc 180
aggagttgga gactagcctg gtctacaaag tgagactctg tttctacaaa aaaataaaat 240
aaatagttgg gtgtggtggt atgcgcttgt ggttccagct acttgggagg atgagggagg 300
a 301

```

&lt;210&gt; 495

&lt;211&gt; 496

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 495

```

cgaagtgaag gctagggggc cgtacgcgcc cgcctgactg tcgccagcag ctctcgggcg 60
gccccaccgc agccgcgcgt ccctgaggcg cgggaggccc gcgccccgcg gctcgctgtg 120
cgtgggaggc cgcgagcgaa cgcgggcgag gagcggccga gccgctgaag aggagctggg 180
cgccggccgc ccggccgcgc tcggcccgcg gatcgcttcc gcccggtctt cgccggcccc 240
ggccctggcg gagatgccgt gtggggagga ttggctcagc caccgctgg gaatcgtgca 300
gggattcttc gcccaaaatg gagttaatcc tgactgggag aagaaagtaa ttgagtattt 360
taaggaaaag ctgaaggaaa ataatgctcc taagtgggta ccatcactga acgaagtcc 420
ccttcattat ttgaaacctt atagttttgt gaaatttcgt tgcattgattc aggatatgtt 480
tgaccctgag ttttac 496

```

&lt;210&gt; 496

&lt;211&gt; 494

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 496

```

aaactatata aaaagtgatt tgtacagaac tttatttttag ctctttttta aaaatgattt 60
gcatgggttag aaaacggcga ggacagccag gggagggaag ggcctctagg gaactttgca 120
ctttctatac ctttgtacta tgcactgccc tattgattct acaccaata atgatattac 180
ttgaacccat ctgtaagaaa ctgcttcgga aattcatttg tgtgtatgta aataacacaa 240
catagaaaca ggaagggaag aaagtctgca gtaatgcacg tatttttttt ctttcctgtt 300
tattttcggt tttgctttaa gtccttttat ttttaattcc ctttttggtt ttctttttgg 360
gttttggttc cttttgggtt tatgggtgcc ctgatactcc agcagagatc agaaggctac 420

```

agatccattc tatccatccg ttatgtggct ttgccatccc agcttggagt gtctttacaa 480  
agataataac agtt 494

<210> 497  
<211> 184  
<212> DNA  
<213> Homo sapiens

<400> 497  
gcgcgccgcg gctggcaggg tgtgctgag tttggtggcg gccggctgtg cagagacgcc 60  
atgtaccggc tcctgtcagc agtgactgcc cgggctgccg cccccggggg cttggcctca 120  
agctgcggac gacgcggggg ccatcagcgc gccgggctgc cgcctctcgg ccacggctgg 180  
gtcg 184

<210> 498  
<211> 471  
<212> DNA  
<213> Homo sapiens

<400> 498  
tcttactaca aatggagatg gctattatga aacagcatga gcatgagcct tttatctttt 60  
atacttagtg atatactttg cttgaaaatc actcagcaaa gtagttcaca tgatgtgtat 120  
catatttgaa gtgtgggtttt tctcaaaatc attgacttta aggagctcat ttctgaacaa 180  
aaagggtttgc tctgtggaaa aatcaatcac tgccaggatt ctttcatttc tgtactattt 240  
tgtataattg aatttggttca cttctctcac accagcaagt gttttacagg tgccttggat 300  
taaaacaaaa ttgattttta aatttttatg taagtcatgt tgtctatgat gccactttta 360  
aaaggaaaat gcaattgcgt aatggcttat atccttattt aatgtacctt tttgtgttct 420  
aataattgtt tgaatgtttt attcagctta aaactttacc atgaagtcat a 471

<210> 499  
<211> 478  
<212> DNA  
<213> Homo sapiens

<400> 499  
aggtgggaaa agcggaggag gacgcccgag aggaggcggc ggccggcgcc gggaagtga 60  
aggtctcgca aagttcagcg gcggtcgcg ggcgcgagcc cgggctagc ggcagacgag 120  
cccgcagggc cgtcccgcg ggcagcgcag ccaggccggc tatggtcccg gggctcccgc 180  
cgccccccag gtgcccggga cccgccaggc cgggtgcgca gggtcacccc acctccccgc 240  
gcggtcccgg cccctggctc ccagctgccg gcgaccgctg accgagcccg gcgccccagg 300  
aggaggaaga aaccagggcc ccgttccttc ccgaggacgg cggcgcttca tcccgcagcc 360  
cagaggtctc ggctccctcc ggcacccgcc cggcccggct gctcccggct cctcccggcc 420  
atggggagct gcgcgcggct gctgctgctc tggggctgca cggtggtggc cgcaagga 478

<210> 500  
<211> 495  
<212> DNA  
<213> Homo sapiens

<400> 500  
gggggcttct ggcttgggtg ggaccaggag ggggcagaag gcaccctgtc gtggctgggc 60  
accgtcttcg gcgtgctggc tagcctctgt gtctcgctca acgccatcta caccacgaag 120  
gtgctcccgg cgggtggacgg cagcatctgg cgctgactt tctacaacaa cgtcaacgcc 180  
tgcgtcctct tcctgccctt gctcctgctg ctcggggagc ttcaggccct gcgtgacttt 240

```

gccagctgg gcagtgccca cttctggggg atgatgacgc tgggcggcct gtttggttt 300
gccatcggt acgtgacagg actgcagatc aagttcacca gtccgctgac ccacaatgtg 360
tcgggcacgg ccaaggcctg tgcccagaca gtgctggcgg tgctctacta cgaggagacc 420
aagagcttcc tctgggtggac gagcaacatg atggtgctgg gcggctcctc cgctacacc 480
tggtgcagg gctgg                                     495

```

```

<210> 501
<211> 494
<212> DNA
<213> Homo sapiens

```

```

<400> 501
ctgcggtgtg gttgggtgtg agatgacgac cttagtgtct gataatggag cttacaacgc 60
caaaatcggt acagccatga aaatgtgtcg gttattccta attgtcagtt ccggtcaaaa 120
acagcacgtc ttaaaacttt tactgccaac cagatagatg aaataaaaaga cccttctgga 180
ctcttttaca tcttcccttt tcaaaagggc tacttggtga attgggatgt tcagagacaa 240
gtttgggatt accttttttg aaaagaaatg tatcaggttg atttttttaga tactaatatt 300
attatcactg aaccatactt taacttcaat tcaattcaag aatcaatgaa tgaaattcta 360
tttgaagaat accagtttca agcagtatta agagtaaag ctggggctct cagtgcacat 420
aggtatttcc gagataatcc ttccgaatta tgctgtatca ttgttgatag tggatattcc 480
tttacacata tagt                                     494

```

```

<210> 502
<211> 479
<212> DNA
<213> Homo sapiens

```

```

<400> 502
ttgtataatg ctgaatgtgt ccagagggac aagtttgcag aacctcatat tggatatatta 60
aagaaataat aaaataaaaa agcacttttag gttattttat ctttaaccgg attgctgcaa 120
tttcttttgt gtgtatatat acatatatat actttccaca aagttttatt ttttgctcag 180
aataaaaagt taaattgagg tgtgaaaaga aaagcactta ctttggtgca atatgtgtag 240
cttgatggtc gttgtcccat gtggccctgg cctggcagcg tttttccgct caatcagccc 300
tgtctgtgta gattgtccat agggaaaacac tattatgcat tctcagcaac cgctcaatct 360
atgcaagcct tccctgtgtg cccagggcgg cccctcagg ctctctgaag aactgctgtg 420
ggtcctgttt tctgctgact gttgaggccc tttttcatca cttcttggtc tctcgccat 479

```

```

<210> 503
<211> 451
<212> DNA
<213> Homo sapiens

```

```

<400> 503
ttgtgggccc ggtgggtttc ctaatctggt ttcgtctgcc tggttcatct gtgtgcatg 60
gctccggact cggatccctt ccctgaaggg ccgctcttaa agctgctacc cttagacgct 120
agagaccggg gcacccagcg ctgccgcctg ggcccgccgg cctccacgc cctgggcgcg 180
cgcttggtgt cggcagtga gatctcgcta ccgcagggcg gctcctgcct ctgcaatgcc 240
tggtcctcggc gggacggagc ggacggcctt gtgcagctgg acccgctgtg cgcgagcccc 300
ggggcgccgg tcggggcgct gagatcccg aggagtctca gcctgaatcg cctcctccta 360
gtgccctgtc cgccctgcg gcgcgtcgcc gtgtggccgg tgttgcgaga gcgggcaggc 420
gcgcccgggt cccggaatac agccgcgggt c                                     451

```

```

<210> 504
<211> 462

```

<212> DNA

<213> Homo sapiens

<400> 504

```
cagtggggaa ggggagagat gccgaggtgg tcagtatcct gactttcaga ggcctttttt 60
tgtttgtttt aatttttgct agattgatat taaaaactca tgtggaggaa ctcaaggaa 120
gtttagaaga ccaaaagtcc ccaatgacag gaacaaaagc aaccaatttt taactttctc 180
ttctcattcc tgttttcatt gatttccac atgtagtcct tttgctcagg aagtctttgg 240
ggaaattaag gatctttgaa gctctgaaat agtgatcag gttagtgggt tctgtcagct 300
gtctaagagg ttggaaaatg aactactcaa gatagtcacg aaaatactga aagtttgatt 360
tttctttcca tatttgaatt aattttttct gtttgactgg aaggggtttt tgtataacta 420
aaacctcagc gcataaagga gatttaaaag gagcacatga tt 462
```

<210> 505

<211> 136

<212> DNA

<213> Homo sapiens

<400> 505

```
tcgattatat cacacatttc agttgggagg ttgtctcaac ctgtgaccac catctgagtt 60
agctggcaga cttctaggag gtctgtctg aggtagaatc agaaatggct tccctccttc 120
tcccataaaa aaaaaa 136
```

<210> 506

<211> 466

<212> DNA

<213> Homo sapiens

<400> 506

```
ggggtacaga gacagcagcc tgcggagcgt tctaggcagg acagggcagc aaacctgaca 60
tgcggagctg ggggcagggg taatggggcc agggggtaat ggcaggtag gcatggcct 120
agagggttgc catgcttggt gcaggggagg agaggcccag gtgtggctgc agtggcagca 180
ggagtcagtg tggctgtgcc cagtgggatg ttgtcagaga atggacctgg ctgctgggaa 240
agtgatttgt gtttgtctga gccacactgg actcttctct gaccagcaag cacattctgg 300
agatgcgggg cagagacgag gcctccgtga gaacctttga ggtgtgaggg ccttgatctg 360
gggtgcagcc tccagctttc tgcctacaga gcaggacctg caggagctcg ctgactgcct 420
gcacagtgga aggaagacct gtttctttta ctttccttga ggagaa 466
```

<210> 507

<211> 101

<212> DNA

<213> Homo sapiens

<400> 507

```
atgatttaat tttttaaaact gtagcaattg gatagataat tttatttgaa attttacaca 60
ctgaaagctc taaataaaca gatacattca cattcaaaaa a 101
```

<210> 508

<211> 242

<212> DNA

<213> Homo sapiens

<400> 508

```
gacaatgcaa gtaacctcaa atgagagtgt ggaaaggcgg gaaagcagcc agagcttcac 60
```

```

tgttatgaaa aaagagtgaa atgtgctctg ttgaagagtt gaagaatgaa caaaggatat 120
ttagtttgaa tggaagctca gtaatgagaa atgagaatgg ttgagttctt aaaagaagca 180
agtaaagaag aggatttgtg ggctactatt ctcatcagtg gaatctcatw ccacccttgc 240
ct                                                    242

```

```

<210> 509
<211> 101
<212> DNA
<213> Homo sapiens

```

```

<400> 509
ccttttgctcc ctttttccaa tttcttattg catatctttc tgtattacaa caaaatgata 60
tgcaataaga aattggaaaa agggagcaaa ggcgaagggg y                               101

```

```

<210> 510
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<400> 510
gcagggttcgg gaccatgagt tggattcctt ttaagattgg gcagcccaag aaacagattg 60
tgcccaaaac agtggagaga gactttgaaa gggagtatgg aaaacttcag caccatgtca 120
aaatctgccg tgaagatatc cttggactta ctctccaatc ccctctgtga gcaagaccag 180
gacctttctga acatggtgac ggccctggac acggccatga agcggatgga tgcccttcaat 240
caggaaaagg tgaaccagat ccagaagact gtgatcgagc ccttaaaaaa gttcggcagt 300
gtcttcccgga gcctcaacat ggctgtgaag aggcgggaac aggccttgca ggactacagg 360
aggctgcagg ccaagggtgga gaagtatgag gaaaaggaga agacggggcc agtgctggcc 420
aagctccacc aggcacgaga ggagctgcgg cctgtgcggg a                               461

```

```

<210> 511
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<400> 511
ggctttctga tattttctaaa attgacctgg aatcaaccat tgacatgtcc tgtgctaaat 60
atgaattcac tgatgccttg ctgtgccatg atgatgagct ggaagggcgc cggattgcct 120
tcatcctgta cctggttcct ccctgggaca ggagcatggg tggtagcctg gacctgtaca 180
gcattgatga acaactttcag ccgaagcaga ttgtcaagtc tcttatccct tcgtggaaca 240
aactggtttt ctttgaagta tctcctgtgt cctttcacca ggtgtctgaa gtgctgtctg 300
aagaaaagtc acgtttgtct ataagtggct ggtttcatgg tccatcattg actcggcctc 360
ccaactactt tgaacccccc atacctcgga gccctcacat ccacaagat catgagattt 420
tgtatgattg gatcaaccct acttatctgg acatggatta c                               461

```

```

<210> 512
<211> 686
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> (1)...(686)

<223> n = A,T,C or G

<400> 512

```
actgacctga aggagacctg agagtccttt ccctttttga gtttgaatca tagccttgat 60
gtgggtctctt gttttatgtc cttgttccta atgtaaaagt gcttaactgc ttcttggttg 120
tattgggttag cattgggata agattttaac tgggtattct tgaattgctt ttacaataaa 180
ccaattttat aatcttttaa tttatcaact ttttacattt gtgttatttt cagtcagggc 240
ttcttagatc tacttatggt tgatggagca cattgatttg gagtttcaga tcttccaaag 300
cactatttgt tgtaataact tttctaaatg tagtgccttt aaaggaaaaa tgaacacagg 360
gaagtgactt tgctacaaat aatgttgctg tgtaagtat tcatattaaa tacatgcctt 420
ctatatggaa catggcagaa agactgaaaa ataacagtaa ttaattgtgt aattcagaat 480
tcataccaat cagtgttgaa actcaaacat tgcaaaagtg ggtggcaata ttcagtgcct 540
aacacttttc tagcgttggt acctcgccgc gaccacgctg gaattccgga agggcctgtc 600
ctangatcca gtgtggtgga attctgcaga tatccagcac agtggcggnc gctcagatct 660
aaanggccgc ttttaaccgc tgatca 686
```

<210> 513

<211> 429

<212> DNA

<213> Homo sapiens

<400> 513

```
catgaacgac accgtaacta tccgcactag aaagttcatg accaaccgac tacttcagag 60
gaaacaaatg gtcattgatg tctttcacc cgggaaggcg acagtgccta agacagaaat 120
tcgggaaaaa ctagccaaaa tgtacaagac cacaccgatg gtcattcttg tatttggttg 180
cagaactcat tttggtggtg gcaagacaac tggctttggc atgatttatg attccctgga 240
ttatgcaaag aaaaatgaac ccaaacatag acttgcaaga catggcctgt atgagaagaa 300
aaagacctca agaaagcaac gaaaggaacg caagaacaga atgaagaaag tcagggggac 360
tgcaaaaggc aatgttggtg ctggcaaaaa gccgaaggag taaaggtgct gcaatgatgt 420
tagctgtgg
```

<210> 514

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(346)

<223> n = A,T,C or G

<400> 514

```
aaaactttct ctacttattt agttttntcc totgagttca accgctgctg gattcgtttg 60
gcataacttt gtgccatgga gttaatgata gataggatga agtaacacac catgacaacg 120
accaactttt caaacatcca ggacaaccag ttttctccct gtgggtgtgcc catttcgctt 180
ttgtggtgaa gcttctgccg ttgagcctcc aggtactcct gaaatggctt ctgcagagat 240
ggacctatgc cggggacagc actggaagca gggtagagta gcccaaagaa aaagacacat 300
ttgggaagaa aagcaggaaa aacgttaaag aaaatgtact taccac 346
```

<210> 515

<211> 549

<212> DNA

<213> Homo sapiens

&lt;400&gt; 515

```

ctgaccagga ctgtgaagat gcggttccgc tgcgaagatg gggagacatt ttccaggaac 60
gtcatgatga tccagtcctg caaatgcaac tacaactgcc cgcattgcca tgaagcagcg 120
tttcccttct acaggctgtt caatgacatt cacaaattta gggactaaat gctacctggg 180
tttccagggc acacctagac aaacaaggga gaagagtgtc agaatacaga tcatggagaa 240
aatgggctgg ggtggtgtgg gtgatggaac tcattgtaga aaggaagcct tgctcattct 300
tgaggagcat taaggatatt cgaaactgcc aagggtgctg gtgaggatgg acactaatgc 360
agccacgatt ggagaatact ttgcttcata gtattggagc acatgttact gcttcatttt 420
ggagcttgtg gagttgatga ctttctgttt tctgtttgta aattatttgc taagcatatt 480
ttctctagga ttttttcctt ttgggggttct acagtcgtaa aagagataat aagattagtt 540
ggacagttt 549

```

&lt;210&gt; 516

&lt;211&gt; 382

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 516

```

ccgctcgtca gactccagca gccaaagatgg tgaagcagat cgagagcaag actgcttttc 60
aggaagcctt ggacgctgca ggtgataaac ttgtagtagt tgactttctca gccacgtggg 120
gtgggccttg caaaatgata aagcctttct ttcattccct ctctgaaaag tattccaacg 180
tgatactcct tgaagtagat gtggatgact gtcaggatgt tgcctcagag tgtgaagtca 240
aatgcatgcc aacattccag ttttttaaga agggacaaaa ggtgggtgaa ttttctggag 300
ccaataagga aaagcttgaa gccaccatta atgaattagt ctaatcatgt tttctgaaaa 360
tataaccagc cattggctat tt 382

```

&lt;210&gt; 517

&lt;211&gt; 323

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(323)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 517

```

acgagcgtag gacgatgctt ctcttntgtc agcctgcaac tgagtcagga ttgaatactt 60
ggaccccagg tctggagatt gggatactgt aatgcttctt tgttattata acataaaagc 120
accactgttc tgttcatttc ctagctgttc taattaagaa aactattaag atgagcaacc 180
acatttagaa atgtttattg acaggctctt tcaaataatg cttttctaata taatagccaa 240
agatttcata tctaactttg taaccagaat tatacagtaa gttgacacca cttagattta 300
aaggcagaca gttttgcttt agt 323

```

&lt;210&gt; 518

&lt;211&gt; 605

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 518

```

ctggataccg aggctggggc cccacactgt ggaacaaacc cacagcttgc tcaggatcca 60
tcccagaatc agcagacatc aaatccaacg cacagttcag aagatgtgaa gccaaaaacc 120
ctcccgtctg ataaaagcat taaccatcag atcgagtctc ccagtgaag gcggaagtct 180

```



```

ataagtgga  agaagctgtg  ctcttcctgt  gggcttcctt  tgggttaaagg  agctgcaatg  240
atcatcgaga  ccctcaatct  ctattttcac  atccagtgtt  tcagggtgtg  aatttgtaaa  300
ggccagcttg  gagatgcagt  gagtgggacg  gatgttagga  ttcgaaatgg  tctcctgaac  360
tgtaatgatt  gctacatgcg  atccagaagt  gccgggcagc  ctacaacatt  gtgacacggc  420
tttcaagctt  ccggatcact  caccatttct  ttactgagag  tgtcccctgg  caactgctta  480
acaaaatccc  aagctcaggg  gcttctcagc  atttacctaa  tttctgaaag  gctcttctga  540
aagggtggtat  ctgttctttc  gtagcacagt  gtttatgttt  ttctgttta  ttggtttggt  600
ttttt                                           605

```

```

<210> 519
<211> 462
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(462)
<223> n = A,T,C or G

```

```

<400> 519
ctgctgggtca  tgncccttggc  agtcttttgt  gcaaaataag  gcatattnga  gctccacatt  60
aaccttgcg  caggcgnc  ctgctctgc  atgctgtanc  agngcacgtc  ctcttcccc  120
ttggtgggtg  agcctngan  aggtgccc  tacttatcca  cacaccagca  naagccccgc  180
ttctgcctt  tggaagggcg  acactgctt  ttcttataaa  atcccttctt  gtcacagttg  240
ggaatgtgna  cccccctggg  actcagcaca  ttgaggaact  tcaagtgatt  cagtgtgnct  300
tccatttctc  tacggcangn  accatattct  gtctcccgt  tggactcgga  ggagaagtgc  360
tgggtatctg  tgctctgaga  ctcgtagtca  actttgtagc  gctggctgnc  tttagcatgc  420
cctttcttga  tgatgantat  ctttgaatgg  agggggtgga  ac                                           462

```

```

<210> 520
<211> 565
<212> DNA
<213> Homo sapiens

```

```

<400> 520
actcgaata  aatatgcac  cggaaacaag  ataaaaggct  acacctcgtc  aggcaccta  60
caaaaatgtc  tcaagtttta  tatactctgc  agcatttctg  tgcgggggca  gaaggggctg  120
ttgtgtattt  totgaagtgc  tgtgacaaaa  ggtcctttca  catttctttg  gagcattttt  180
gaaattgctt  aactataatt  aaacaactta  agaaaagtaa  caccaagctt  taaagccatt  240
tttgccttgc  tgtcattgg  ccttatccaa  tacagatcaa  catatcatcc  agcacagcca  300
agcaccact  gaggccaagc  agccttgtgg  gacatgggco  ctgtcagagc  aggccctact  360
ttcagttaaa  tactttggag  agtccaggat  tctgtctctc  tccctcaaca  agattaatgc  420
cataagggaa  gttgcaagcg  tgtagaaac  atttttaacc  tgaaagtaaa  gtgaacagaa  480
atattttttt  ttccgagacc  totgtatgc  accataatat  taccatatca  gggtttttag  540
cttcaaagtt  gaaaaacaga  ttggt                                           565

```

```

<210> 521
<211> 127
<212> DNA
<213> Homo sapiens

```

```

<400> 521
acatggctga  cgtcaccgtc  cagtgc meta  tcaaaaaaga  aagaaagaaa  aaccccaaag  60
aaagaggatt  tttcagtgga  gaacatggtg  ggctgattag  gcttctatta  gattacattc  120

```

atttcac

127

&lt;210&gt; 522

&lt;211&gt; 642

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(642)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 522

```

actatgtttc gtaaattaaa taggtntggc ccagaagacc cactcaattg cctttgagat 60
taaaaaaaaa aaaaaaaaaa aaagaaaaat gcaagtcttct ttcaaaataa agagacattt 120
ttcctagttt caggaatccc ccaaatcact tcctcatttg cttagttaa agccaggaga 180
ctgataaaag ggctcagggt ttgttcttta attcattaac taaacattct gcttttatta 240
cagttaaatg gttcaagatg taacaactag ttttaaagggt atttgctcat tggctcggct 300
tagagacagg aagacatatg agcaataaaa aaaagattct tttgcattta ccaatttagc 360
aaaaatttat taaaactgaa taaagtgtctg ttcttaagtg cttgaaagac gtaaaccaaa 420
gtgcacttta tctcatttat cttatggngg aaacacagga acaaattctc taagagactg 480
tggtttcttta gttgagaaga aacttcattg agtagctgtg atatgttcga tactaaggaa 540
aaactaaaca gatcaccttt gacatgcgtt gtagagtggg aataagagag ggctttttat 600
tttttcgttc atacgagtat tgatgaagat gatactaaat gc 642

```

&lt;210&gt; 523

&lt;211&gt; 244

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 523

```

ctgaaggagc tgatccagaa ggagctcacc attggctcga agctgcagga tgctgaaatt 60
gcaaggctgc tggaagactt ggaccggaac aaggaccagg aggtgaactt ccaggagtat 120
gtcaccttcc tgggggcctt ggctttgatc tacaatgaag ccctcaaggg ctgaaaataa 180
atagggaaga tgggggacacc ctctgggggt cctctctgag tcaaatccag tgggtgggtaa 240
ttgt

```

&lt;210&gt; 524

&lt;211&gt; 407

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(407)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 524

```

acgttagtgg tgatgtcacc caccctnnng ctgggggcga ggatgctctc attgtgcact 60
gcgtagatga ctctggccac tggggcagag gtggtttatt tacagctctg gaaaagcgat 120
ccgctgagcc aagaaaaata tatgagctgg ctgggaaaat gaaagacctg agtttgggag 180
gtgtcctttt atttctgttt gatgataaag aatcaagaaa caaagggcaa gatttggttg 240
ccttgattgt ggctcagcat cgtgatcggt ccaatgtcct gtctggcatt aagatggcag 300
ccctagaaga gggcctgaag aagatatatt tagcagcaaa aaagaagaaa gcaagtgttc 360

```

atcttccacg tattggacat gccacgaaag gttttaactg gtatgggt

407

<210> 525

<211> 276

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(276)

<223> n = A,T,C or G

<400> 525

```
acacaggagg caacgtgttt cacatnatag acttcacttc caactccttg gaatgttcat 60
ttctttggct tacaggagag actagacagg aaggccaggc aatgcttagg caactaaaat 120
gaggttgggg gtaatgctaa cgtcaccctc acaggggatg ccacggggac tgttattcgc 180
aagctgggtt tctagacctg ttagctggaa gcatggtgag caccatttct ggacgctcag 240
gccgtgtcgg gcttcagtca tctccaccac acaggt 276
```

<210> 526

<211> 288

<212> DNA

<213> Homo sapiens

<400> 526

```
acaattaccc accactggat ttgactcaga gaggaccccc agaggggtgtc tccatcttcc 60
ctattttatt tcagcccttg agggcttcat tgtagatcaa agccaaggcc cccaggaagg 120
tgacatactc ctggaagtgc acctcctggt ccttggttcg gtccaagtct tccatcagcc 180
ttgcaatttc agcatcctgc agcttcgagc caatgggtgag ctccttctgg atcagctcct 240
tcagctcctt cttgctcagg gtgtgcttgt caccctccct gccggagt 288
```

<210> 527

<211> 412

<212> DNA

<213> Homo sapiens

<400> 527

```
actttgagct tattgttttt attctgtatt aaatattttc agggttttta acactaatca 60
caaaactgaat gacttgactt caaaagcaac aaccttaaa gccgtcattt cattagtatt 120
cctcattctg catcctggct tgaaaaacag ctctgttgaa tcacagtatc agtattttca 180
cacgtaagca cattcggacc atttccgtgg tttctcatga gctgtgttca cagacctcag 240
cagggcatcg catggaccgc aggagggcag attcggacca ctaggcctga aatgacattt 300
cactaaaagt ctccaaaaca tttctaagac tactaaggcc ttttatgtaa tttcttttaa 360
tgtgtatttc ttaagaattc aaatttgtaa taaaactatt tgtgtaaaaa aa 412
```

<210> 528

<211> 489

<212> DNA

<213> Homo sapiens

<400> 528

```
aaatgcaaaa agtcaaagta ggtaacaggt tggttaattaa agtgtcagga agactggaag 60
aggcaaaaat caagcagagt tccaataagt gtatgaaaaa aaaaatcata actgaaggtt 120
taagaaaagt ccccaaaggc agaatcacia tatgagcagg aggaataaaa agcttttgga 180
```

```
tataaccaggc agcttttctgt acgactcagg ttacaggtg aaatttcctca gtttgagttc 240
agaagaatttt gaacttattc cagcaaaaata cttcaatctt tttattactg cctcctcccc 300
catcttctttt ctgggcaaaag ggatgcttgg attaggtcca aagctcctgg cagggggagg 360
ggccatgtgt cacagcataa cagacgggtg caagtgtttt actgagcagg ggtcagggtt 420
gcagcaactc tgataggctc acacaatggc ctccatttta cagccctcc ttggaggccc 480
actgatcag                                     489
```

```
<210> 529
<211> 631
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G
```

```
<400> 529
acttgcctaa agtttttata tctgnntctt ctgctgtaaa tcttcccttc ataaatgaaa 60
attttaataa aatcaactat gtggaaatat ataattaaag gaattcacta actgtgattt 120
tcataatttta gggacattct cttctagtaa gcatgggtgca ttatttacta gagatataat 180
atgcattaaa acaaaaaatg ttttctatca tcatagaaaa gtttgaggtc caggggataat 240
catctctgga tacattattt cctaccgtcg tggtagacac tgaacacatt tgaggcttat 300
gactggttct tttacttaca aatattgttt agacacattt tcaaattgtca caccaatcaa 360
taataataag gaatggattt tatctatatt gacagttctt tcaaccttaa gagtgaactg 420
ctacaggtaa gattcaatca catttttcag gagaaagcta ttgagaccaa tatgcttttg 480
ttatctaata ggggtggaat gacttataat gctatttact ccaggcaaag agaaaataca 540
acagacatag gatcttgatt tcaacgtagt tctcctccat gtgcatttct ctgtccggtt 600
aggcaatgcc aactgggtcca ccagtgaaca t                                     631
```

```
<210> 530
<211> 316
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(316)
<223> n = A,T,C or G
```

```
<400> 530
acacatttta atgactcacg agantnaagt ttttttcaaa tatattaaga tcacaccacc 60
ttgttggttta tcgaaagata ttcaaggaga aagatctgac tctccaaact gcatctgaga 120
ttgccacttt aaacagacct catttcaaac atgcaacaac gccactggta ataaagcttt 180
ggaatgggtg ctcatcttat tatttcaact caaacagcat agaaagcaag agaagttggg 240
aattttattct aaaatagaat ggagggtgtc atctacagca gcactcctca ctcctctgtt 300
gccattttta gcaagt                                     316
```

```
<210> 531
<211> 296
<212> DNA
<213> Homo sapiens
```

```
<220>
```

<221> misc\_feature  
 <222> (1)...(296)  
 <223> n = A,T,C or G

<400> 531  
 aaagtatcat ttatttgaaa aacatacatt atcattntgt ttttgatatt tgataatgaa 60  
 aaaaatcttt gnttgtttat ttctgaaaaa gaactgtatt tagngattat tttagatagt 120  
 gatattatan cattcatctg tgtgtaaatt atttcatata ggggaagagt ctgatctgta 180  
 cctatgggtc ttattgaaaa caacattgga tgtgcatttc tgtgatgtta tgaatacatt 240  
 tctactttat tttgaaacat ttgccaaact aaatactgta acactgtata acattt 296

<210> 532  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 532  
 acatatgcac caaattccat tttagaagtt tccatatcat tttcatagaa aacaaagttt 60  
 gaaaacaagt aacattttaa cacagcacgg tattctacca caactgaaac ttttttcttc 120  
 ttcttcttta caggactcaa caaaatctaa aaatgaacta tgctgtagat ttacctcatg 180  
 caaagatctt tatgttatct ctgaaaatga aaaggatggc cttttaagca cattttactg 240  
 ttttatacta ttatggcaac ttgtgt 266

<210> 533  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(289)  
 <223> n = A,T,C or G

<400> 533  
 actcagaagt cacttttaat atcanogaca gaaatatttc actaattcaa ctgaggcaaa 60  
 ttctctttct agacaaagga cctagaaatt gagcatgcaa aacatccatc cattcattca 120  
 ttcaaataat tagccaattt tacogtcatt taattccacc agaagcaaact actagaatat 180  
 ctagaagtag tttgggtaaa gaaacattta ctttttaata ttgtgtaatg tcataaattt 240  
 ggggctaaaa taacaccagg tcaaatttga tccctttgta tgtgagggt 289

<210> 534  
 <211> 293  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(293)  
 <223> n = A,T,C or G

<400> 534  
 aaaataaaag gttctttaca agatgatacc ttaattacac tcccgaaca cagccattat 60  
 tttattgtct anctccagtt atctgtattt tatgtaatgt aattgacagg atggctgctg 120  
 cagaatgctg gttgacacag ggattattat actgctattt ttccctgaat ttttttctt 180

```
tgaattccaa ctgtggacct tttatatgtg ccttcacttt agctgtttgc cttaatctct 240
acagccttgc tctccggggn ggtaataaaa atgcaacact tggcattttt atg 293
```

```
<210> 535
<211> 408
<212> DNA
<213> Homo sapiens
```

```
<400> 535
acttgaacac tttaaagagaa aaactctaaa taaagtcata gaggggatgg tagagatgac 60
cacagaaaat gaccacggag agtattatga agattgcaag attagacatt gatgatgtaa 120
attactccct ttctagataa aataatccat agatgtttat gaatcatatt tgtatgatta 180
ttgctgttac tattattttg acacattatt tattattatt gttgtcacta ttattaccat 240
taagatagca ggcgtaaaaac tgtactgggt ccttcagtag tgagtatttc tcatagtgca 300
gctttattta tctccaggat gtttttgtgg ctgtatttga ttgatatgtg cttcttctga 360
ttcttgctaa tttccaacca tattgaataa atgtgatcaa gacaaaaa 408
```

```
<210> 536
<211> 184
<212> DNA
<213> Homo sapiens
```

```
<400> 536
acctctcatc aaggetctgc ctacaggcac atttgtatgt atctctgcac tgatcaccta 60
ggcatgtaa cttttttcta ggctctacct acgatggcat tgtgacataa ctctgcaacta 120
atcatccacg tgatgtaact cttgtctagg atgtgcctaa attaactttt tgacgtaacc 180
ctgt 184
```

```
<210> 537
<211> 311
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(311)
<223> n = A,T,C or G
```

```
<400> 537
ccacagttgt atcatatagc atctntaaca tttcatctag gattatctag tatagatctt 60
actatatttg gggctatggt gtatacaatg ttaacaagaa catatcttct ctgcatatat 120
gtgtgaatta taaagaaaag catgagaatg actctaagtt caacaaacat gggatgaatct 180
ctatgtgctc ccagtgtcct ggatgggctc cccagcaagc cattcctcct tcctgttctg 240
atattactat tcttttttac attgtgctaa ggaggacaaa aggtgagaga tgaaaataaa 300
gccttgccct t 311
```

```
<210> 538
<211> 302
<212> DNA
<213> Homo sapiens
```

```
<400> 538
aaaataaaaa agcaaaaact cttgtggtac ctagtcagat ggtagacgag ctgtctgctg 60
ccgcaggagc acctctatac aggacttaga agtagtatgt tattcctggg taagcaggca 120
```

```

ttgctttgcc ctggagcagc tattttaagc catctcagat tctgtctaaa ggggtttttt 180
gggaagacgt tttctttatc gccctgagaa gatctacccc agggagaatc tgagacatct 240
tgcctacttt tctttattag ctttctcctc attcatttct tttatacctt tccttttttg 300
gg                                              302

```

```

<210> 539
<211> 396
<212> DNA
<213> Homo sapiens

```

```

<400> 539
actgtttatt tgctccttct cttcatgcct gtggttgat gtcccacaac actataagaa 60
atataagtca agccctttgt gttaagcaag aactacagac tccatctttt caccctaaatc 120
atgaatgacc aataaaaagc aagttattcc agaggaagaa gcagcccttg aaatgttaag 180
gcttaggctt gaaaggtgaa gagcaggaat tctctctttc aaatcctaga gcataaaccc 240
atgtgtggcc aagttagatc agccctcaag ggcacatgcc aagggcagag cagcccatgt 300
agacagcttc ggagggcatg ggggtgtagg gagtctgggg tagctcctca ttaactattt 360
gttgggtgag taaaggggtg aggtcagtg gcaggt 396

```

```

<210> 540
<211> 634
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(634)
<223> n = A,T,C or G

```

```

<400> 540
ccaaaaacaa gatgaccaga tttgntttna gcctgatgac cctacaggtc gtgctatgat 60
atggagtcct catgggtaaa gcaggaagag agtgggaaaag agaaccaccc cactctgtct 120
tcatatttgc atttcagtgt taacctccgg ctggaaatag aaagcattcc cttagagatg 180
aggataaaaag aaagtttcag attcaacagg gggaagaaaa tggagattta atcctaaaac 240
tgtgacttgg ggaggtcagt catttacagt tagtctgtg tctttcgact tctgtgatta 300
ttaaccccac tcactaccct gtttcagatg catttggaat accaaagatt aaatccttga 360
cataagatct catttgcaga aagcagatta aagaccatca gaaggaaatt atttaggttg 420
taatgcacag gcaactgtga gaaactgttg tgccaaaaat agaattcctt ctagtttttc 480
ttgtttctcat ttgaaaggag aaaattccac tttgttttagc atttcaagct tttatgtatc 540
catcccatct aaaaactctt caaactccac ttgttcagtc tgaaatgcag ctccctgtcc 600
aagtccttg gagaactcac agcagcacgc ctta 634

```

```

<210> 541
<211> 221
<212> DNA
<213> Homo sapiens

```

```

<400> 541
cacacaagca gcagagacca tgggaaccct ctcagcccct cctgcacac agcgcacaa 60
atggaagggg ctctgtctca cagcatcact tttaaacttc tggaacctgc ccaccactgc 120
ccaagtcacg attgaagccg agccaaccaa agtttccgag gggaaggatg ttcttctact 180
tgtccacaat ttgccccaga atcttaccgg ctacatctgg t 221

```

```

<210> 542

```

<211> 287  
 <212> DNA  
 <213> Homo sapiens

<400> 542  
 cctottttac tatggcagga gatgtggcgt gctgttgcaa agttttcacg tcatcgtttc 60  
 ctggctagtt catttcatta agtggctaca tcctaacata tgcatttggt caagggttgca 120  
 gaagaggact gaagattgac tgccaagcta gtttgggtga agttcactcc agcaagtctc 180  
 aggccacaat ggggtgggtt gggttgggtt ccttttaact ttccttttgt tatttgcttt 240  
 tctcctccac ctgtgtggta tattttttaa gcagaatttt atttttt 287

<210> 543  
 <211> 274  
 <212> DNA  
 <213> Homo sapiens

<400> 543  
 acttgtgaaa cacagctggt cttctgtttc gcagacacgc cttccctca gccacaccca 60  
 ggcacttaag cacaagcaga gtgcacagct gtccactggg ccattgtggt gtgagcttca 120  
 gatggtgaag cattctcccc agtgtatgtc ttgtatccga tatctaacgc tttaaatggc 180  
 tactttgggt tctgtctgta agttaagacc ttggatgtgg ttttaattgt tgctcctcaa 240  
 aggaataaaa cttttctgct gataagataa aaaa 274

<210> 544  
 <211> 307  
 <212> DNA  
 <213> Homo sapiens

<400> 544  
 ccaggtgggt gtcttattgc accatactcc ttgcttctcg atgctgggca atgaggcaga 60  
 tagcactggg tgtgagaatg atcaaggatc tggaccccaa agaatagact ggatggaaaag 120  
 acaaactgca caggcagatg tttgcctcat aatagtcgta agtggagtcc tggaaatttg 180  
 acaagtctg ttgggatata gtcaacttat tctttgagta atgtgactaa aggaaaaaac 240  
 tttgactttg cccaggcatg aaattcttcc taatgtcaga acagagtgca acccagtcac 300  
 actgtgg 307

<210> 545  
 <211> 570  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(570)  
 <223> n = A,T,C or G

<400> 545  
 accttagaaa tttgcaacca cctccctgaa agtotttctcc cacgttatta agtgcaatgt 60  
 ttatggtaaa tgtagaagca tcatgatgag gacgaagaga acgtgtgctg tcaggggagt 120  
 attttactac aaaattcagt agtgcaaatc ctttcgtata atagcctgca aagaccttca 180  
 gtgtaactgg ngcaatgaac tcccggataa aatgaagcca tacattctcc agatcaactt 240  
 gcttcatgtg gatatcatca gttgggacat tttcataacc accagatata cggctatcat 300  
 gatgttttcc cccagaccat ttgccgtaat gttccatttc ttctaccaat tcatcacagg 360  
 ctttttcaga aaatatgggg aaccaaaga catctggaca gggctgttca actatatttt 420



```

cagtgaaaat ctttgaataa tcacggttta tatacttttc cttccagtc acaggatttt 480
caaaaatctg ccagaggtca ttgttataat gggaagtatt gtaattagca gtggataata 540
gccttccaaa ttcattgtcta ttagaaatgt                               570

```

```

<210> 546
<211> 589
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(589)
<223> n = A,T,C or G

```

```

<400> 546
aaaaatactt tttaccaaag gtgctatttc tctgtaaaac actttttttt ggcaagttga 60
ctttattctt caattattat cattatatta ttgtttttta atattttatt ttcttgacta 120
ggtattaagc ttttgaattt atttttcagt agtcccacca cttcataggt ggaaggagtt 180
tgggggttctt cctgggtgcag gggctgaaat aaccagatg cccccaccct gccacatact 240
agatgcagcc catagttagc cccctagct tccagcagtc cactatctgc cagaggagca 300
agggtgcctt agaccgaagc caggggaaga agcatcttca taaaaaactt tcaagatcca 360
aacattaatt tgtttttatt tattctgaga agttgaggca aatcagtatt cccaaggatg 420
gcgacaaggg cagccaagca gggcttagga tatcccagcc taccaatatg ctcattcgac 480
taactaggag ggtgagttgg ccctgtctct tcttttttct ggacctcagt ttccttcagt 540
ggagcttggt aaaaatgcac tacnntttga tttgataagg tataaatct                               589

```

```

<210> 547
<211> 293
<212> DNA
<213> Homo sapiens

```

```

<400> 547
actcctatta ttgactgtag tcaatcaaac ataaaaaggt gaaagtaaaa tttaatTTTT 60
tacccttatt ttactgacca atatggaagt tcttggtatc tttaggctg accttcctgg 120
tattgtgtaa tgattgaatg tatctaaact gtaataattt gaaactgaca aacataacct 180
tctcagactt acaaaaactat gttcttttcta aagatacaga tttttattat tttattttga 240
ctaggaagga tttataaata aatgtaatga aaaatctttg atcttaataa agt                               293

```

```

<210> 548
<211> 98
<212> DNA
<213> Homo sapiens

```

```

<400> 548
aaacaaaggt tgagatgtaa aaggatttaa attgatgttg ctggactgtc atagaaatta 60
cacccaaaga ggtattttatc tttacttttt tttgtaca                               98

```

```

<210> 549
<211> 121
<212> DNA
<213> Homo sapiens

```

```

<400> 549
acatgcatat ttcaaagacc tgtaaatggc gtccactttg gattcttaca tgaaacgatt 60

```

cagtgcacat tgtaagccta aggaccacgc aaaagggttt cccacatatt aagtattcag 120  
t 121

<210> 550  
<211> 509  
<212> DNA  
<213> Homo sapiens

<400> 550  
acaatagtat acattttata atgatgaact tataatgatt aagggacatt tctataaaaa 60  
tactacaata gttttatgca caacttccca ttaaaaatga gatttcttat ttgtttgtct 120  
gtttttactc tgggagtaat actttttaaa ttacctttac atatatagtc actggcatac 180  
tgagaatata caatgatcct ggaaattgca gtaacaaaag cacacaacga ttatagtaac 240  
tataagatac aataaaacaa ataaatgtga aagtagattc atgaaaatgt attcctttta 300  
aatattgttt tcctacaggc ctattttaaca agatgtttca ttttactgta tattttgtag 360  
ttaatatataa tggtgctcta atcagattgc ttaaaagcat ttttattata tttatgttgt 420  
tgaactaata tatgaaataa gtaaattgtag ctcccacaag gtaaaacttca ttggttaagat 480  
tgcactgttc tgattatgta agcatttgt 509

<210> 551  
<211> 427  
<212> DNA  
<213> Homo sapiens

<400> 551  
accatgggta tatgattaat cttgggacaa agaattttat agaaattttt aaacatctgg 60  
aaaagaagct taagttttat catccttttt tttctcgtga attcttaaag gattatgctt 120  
taatgctgtt atctatctta ttgttcttga aaatacctgc attttttggt atcatgttca 180  
accaacatca ttatgaaatt aattagattc ccatggccat aaaatggctt taaagaatat 240  
atatatatatt ttaaagtagc ttgagaagca aattggcagg taatatttca tacctaaatt 300  
aagactctga cttggattgt gaattataat gatatgccc ttttcttata aaaacaaaaa 360  
aaaaataaat gaaacacagt gaattttag agtgggggta tttgacatat tttacaggg 420  
ggagtgc 427

<210> 552  
<211> 340  
<212> DNA  
<213> Homo sapiens

<400> 552  
cctcaaggcg gtccaattat ccacttgcag attctacaga aagagtgttt caaaactgct 60  
ctgtcaagag aaatggcca ccgtgtgtgt ggaatgcagc catcacacat tagtttctga 120  
gattgcttct gtcttggttt tatggggaga tatttccatt tctagcatag gcttcaaggc 180  
gctctaaata tccgcttga aatactacaa aaacagtgtt tcaaaactgc tgtatccaaa 240  
ggaaggtgcc actcgtgag ttgaatgcac acatcacaa gaagtttctg agaattcttc 300  
tgtctagatt catacgaaga aatccogttt ccaacgaagg 340

<210> 553  
<211> 549  
<212> DNA  
<213> Homo sapiens

<400> 553  
acttgagctg tgaggtcatc ggaatccga cacctgtcct catctggaac aaggtaaaaa 60

```

ggggtcacta tggagttcaa aggacagaac tcctgcctgg tgaccgggac aacctggcca 120
ttcagacccg ggggtggcca gaaaagcatg aagtaactgg ctgggtgctg gtatctcttc 180
taagtaagga agatgctgga gaatatgagt gccatgcac caattcccaa ggacaggctt 240
cagcatcagc aaaaattaca gtggttgatg ccttacatga aataccagtg aaaaaagggtg 300
aagggtgccg gctataaacc tccagaatat tattagtctg catgggttaa agtagtcatg 360
gataactaca ttacctgttc ttgcctaata agtttctttt aatccaatcc actaacactt 420
tagttatatt cactggtttt acacagagaa atacaaaata aagatcacac atcaagacta 480
totacaaaaa tttattatat atttacagaa gaaaagcatg catatcatta aacaaataaa 540
atacttttt 549

```

<210> 554

<211> 321

<212> DNA

<213> Homo sapiens

<400> 554

```

acctaataat atgttaacat aaacataaca acacacatat tttttttcta ccccttgcca 60
actgaaaatg aagttaccat tcctaggcca aatttttaga caaagctttc taaaaccatc 120
tttataaagt aaattcagat atgcttacia taaaaagaca taaaagattc atcctgagat 180
gaattctgag tcaataacta aaaaccattt ctaccagtgc atcactacca tgtaatccat 240
tctacgcaag ctctacaaat attgagtcaa atcctgtctg tcagaaaatg aagacccaat 300
aagtttgccg aagtattcag t 321

```

<210> 555

<211> 322

<212> DNA

<213> Homo sapiens

<400> 555

```

ctggatcccg agaatactgg aacaatagag ctgcacctta tctcttggct ctgtttctca 60
gtactttgaa gttataacta atctgcctga agactttctc tgatggaaaa tcagccaagg 120
actaagcttc catagaaata cactttgtat ctggacctca aaattatggg aacatttact 180
taaacggatg atcatagctg aaaataatga tctgttcaat ttgagatagc agaagtttca 240
cacatcaagc taaaagattt gcatatcatt atactaaatg caaatgagtc gcttaaccct 300
tgacaaggtc aaagaaaact tt 322

```

<210> 556

<211> 286

<212> DNA

<213> Homo sapiens

<400> 556

```

aaaaaatatg tatctaagaa tgttctaggg cactctggga acctataaag gcagggtattt 60
cgggccctcc tcttcaggaa tcttcctgaa gacatggccc agtcgaaggc ccaggatggc 120
ttttgctgcg gccccgtggg gtaggaggga cagagagaca gggagagtca gcctccacat 180
tcagaggcat cacaagtaat ggcacaattc ttcgatgac tgcagaaaat agtggtttgt 240
agttcaacaa ctcaagacga agcttatttc tgaggataag ctcttt 286

```

<210> 557

<211> 459

<212> DNA

<213> Homo sapiens

<400> 557

```

acagaagatg aataataatg aaaaactgtg attttttgac tatcacatac attgtgttaa 60
aaaacaggta aatataatga ctattactgt taagaaagac aaggaggaaa actgtttcaa 120
tggttcagggt taaataactaa gcacaaaaat ataacaaatt ctgtgtctac aataattttt 180
gaagtgtata caagtgcatt gcaaatgagc tcttttaaat tttaaagtcca tttccctttt 240
agccaagcat atgtctacat ttatgatttc tttctottat tttaaagtct cttctgggtt 300
agtttttttaa aaagtttcat catggctgtc atcttggaat ctagcctcca gctcaaagct 360
gagacttcac gcatacatat tctcctttct ggggtgcatt tcacctagtt tctccaagta 420
ttcagagtta aatagcacia cttcttttat atgttccct 459

```

```

<210> 558
<211> 303
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(303)
<223> n = A,T,C or G

```

```

<400> 558
aaaaaataaa aaacaagaca acaatttagt agaagtaccn ctgggagggga ggggagggga 60
aaaaaggata tacaggggca gngtattct ctgtacagag gtgcananaa aatttcacat 120
anctttanag aatgccttgt ggaaaaaaaa aaataggccc caatacttgt tactgccctt 180
tatcaaaact gtgtgcatga cctgcacaaa taaaatcaca aaacagtgtt gccacattct 240
tcaaggaaac aaagcaaaat ttagggggnt tcttttccct ctcttggtta aaagtcattt 300
ttt 303

```

```

<210> 559
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(232)
<223> n = A,T,C or G

```

```

<400> 559
aaagcattta ttaagaattt actcaggcat gatggcccat acttgtaatc ccagctattg 60
ggaaggatga gatggggagg tggcttgagg ccagagggtt gagaccgacc agccagggca 120
acacagtgag accccttctc aaaaaaaaaa aaaaaaaaaa agagagtgtg tgattagaag 180
ctaaatagga aagtttttgag cttcaagtca gngaggagta aaaaagattt tt 232

```

```

<210> 560
<211> 336
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(336)
<223> n = A,T,C or G

```

```

<400> 560

```

```

ctctgcacaaa ataannataa aaaaataaat aaaatttttaa aaataataaaa attcactata 60
tacacatata aagaaataaa aagaagtctc agttgcagct atttgtcaaa attaatatcc 120
atttccttttt atatacgggtg aatattgcgc aattatagat ctggattttg aaccacttaa 180
tgaagcggca acaccagggtg ttttgagggtg ttggcattct tcgctgattt ggctgttccc 240
aatgtttaca ttatttaatc ttgcaaaaat ggttctgtgc acttggatgn gaaatgctgn 300
ccagntttat tttttttatg ttgntatcct tggatg 336

```

```

<210> 561
<211> 636
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(636)
<223> n = A,T,C or G

```

```

<400> 561
acattatggg ttttattgct ttcttttatg gtagacctgt taatggggaa aaaatacatc 60
aaatcaaata gaatcttata tctgtatggt aaaatagagc acttacctga agtcagtggc 120
ctggatcata gccctggatc atttcccagt ctgtcctgtg ctgtgtgacc ttggacaagg 180
cgcttcatct ctctgggcct ctatttctcc atttgtaaaa caagtggctg cagtagatga 240
tggtcgagag ccttctctgt tcccagatgc cttgggtccaa agaccccacc cctctgctgg 300
tcctgccaac gtgttgggtgc tataagctgc ttcagatata aaattggttt atctataatg 360
tttgttcatt taatagcttc taaaaggcct ttttgttata cagtgccttt tttctagttt 420
tatggacttg gttactgtaa taatgtcttg tttttagcca tgtaactaca aacagatatt 480
ctcttgatgt cttagtaaat ttgcatttga tatatcattg atgagatttt gttgttatgt 540
aatattcttt ggctacgcat ctgtccagca tcttattaac cataatactg ngatcattat 600
ttggaatatat gtcctatgga aagaataaaa gcatgt 636

```

```

<210> 562
<211> 708
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(708)
<223> n = A,T,C or G

```

```

<400> 562
acagtccacc ttttgatata tgccatgcct ttgatcaaag aacaggacat aaaaacaaaag 60
tcacaatgac attccatagt aaatttggaa tcagaactcc aaatgcaact tcgggctcgc 120
tgagagaacaa ctaaggggca ccaaaccctc tgagggttta ctttaagggt cgctgtatgt 180
ttgccttggga caaaaaggct acctaccacg tgctatccag taatatactt aaataagcca 240
atacttagat ctactgtaag gcagatgcta atttaaggc attaagtaag caaatagtgc 300
cctcagctac tgcagaagaa aagtcccact gaggaaaaga aagtcttgtg atttttaaag 360
gcaagttttc aagtgtctct atagttctat cctctaattc cattaaatcc atactaggag 420
cgctcagttag ggttttcata gcttttggaa atactttggt ctctgaactg taattagcaa 480
gaagtaaaaa cagaaacgtc aaacgtcaaa tgtttgcttt gttacctgga ggactaaatg 540
tagatgtctt tagtatactt tgtatgttct taatattgga agataatttt gtgaatctgt 600
agattttatt ttttcagtct taccttacaa atttcttttc tatgaataat agaggactta 660
cngcactctg ccatttgtta atgaaaggaa ggcngangat ttagaaaag 708

```

<210> 563  
 <211> 290  
 <212> DNA  
 <213> Homo sapiens

<400> 563  
 ccagatgctc atccactttc agactttcat ctcttctgcc atctgccaaa gtcaacagag 60  
 ctttccggaa gtcaccagat gtttcggaac taatgtcatc tccaagactc ttcttgtata 120  
 ctgtataata ggcttgagag atatccttca tttgcctgct tgtcctggta gttaagattt 180  
 caatcaaggc atcttcgttt gttcccgcg ccttcatgga tttcttttagc tgctttgcat 240  
 caaagactgc tgggtggagtc actagggcca ccatgagatg ctcaaagtgg 290

<210> 564  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<400> 564  
 accaccagat acttaaagct tcaaaaagac tgcccctacc accacaggag gaccagccta 60  
 accatacgct ccaaaagatg gctgtgatag atcttgtgaa gcaattactg agcagatcaa 120  
 gatctttggg aaggaacact aaagatgttt tgaatgaatt atagtccact ggcatttttag 180  
 tgtatttttt tttcttttta gaaacacaca tttctaaaaa tgtcatgtta cattcctgca 240  
 tgtccctttt gatagcatta gtggatccat tggatttctt ttttcttttt gtgagacagc 300  
 ttttagtctt acctgaattt atgtgtgttt ttccgacagt ggtaataat tatattggtg 360  
 atgtagcagc aattgtgttg gcagggtttt catatattat tagtaattaa cactaactgt 420  
 tggactgact tgtgtcgata gcgctcacgc aagcatggtt aacgtcccta aaacccgccg 480  
 gactttctgt aagaagtgtg gcaagcacca accccataaa gtgacacagt 530

<210> 565  
 <211> 450  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(450)  
 <223> n = A,T,C or G

<400> 565  
 ctgcttacgg aagcgctgnn tgactaggat gtgatttatt aacgaccaac ttctgttatt 60  
 gtgtgttaag tttttcatct gtgcatcaaa tcacaaaaag aataaataga gctttttcct 120  
 ttatcagtcc cttgggcaca gcaggctcctg aacacccctgc tctacaatgt tgcataaga 180  
 gttcaaacia caaaataaaa aatattaaga ggaaatcccc atcctgtgac ttgagtcctt 240  
 taagtctaca ggggctggtg acctcttttt gctaatagga aaatcacatt actacaaaat 300  
 ggggagaaaa ctgtttgcct gtggtagaca cctgcacgca taggattgaa gacagtacag 360  
 gctgctgtac agagaagcgc ctctcacatc tgaactgcat actgagcggg caagtcgggt 420  
 gtaagttcag taaaaccctc tgatgatgac 450

<210> 566  
 <211> 563  
 <212> DNA  
 <213> Homo sapiens

<400> 566

```

acttgagctg tgaggtcatc ggaatcccg cacctgtcct catctggaac aaggtaaaaa 60
ggggtcacta tggagttcaa aggacagaac tcctgcctgg tgaccgggac aacctggcca 120
ttcagacccg ggggtggcca gaaaagcatg aagtaactgg ctgggtgctg gtatctcctc 180
taagtaagga agatgctgga gaatatgagt gccatgcatc caattcccaa ggacaggctt 240
cagcatcagc aaaaattaca gtggttgatg ccttacatga aataccagtg aaaaaagggtg 300
aagggtgccga gctataaaacc tccagaatat tattagtctg catggttaaa agtagtcatg 360
gataactaca ttacctgttc ttgcctaata agtttctttt aatccaatcc actaacactt 420
tagttatatt cactggtttt acacagagaa atacaaaata aagatcacac atcaagacta 480
tctacaaaaa tttattatat atttacagaa gaaaagcatg catatcatta aacaaataaa 540
atacttttta tcacaaaaaa aaa 563

```

<210> 567

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(424)

<223> n = A,T,C or G

<400> 567

```

ccagtgagca aattgaaaac caactgaaag caaatccaaa tgaggaagat ttttaataaag 60
gaataccctt ctccatagca ggtgcaatgc tgactgctca aggcgtgctg gcgcgcgcac 120
acacacacac acacacacac atacatactc tcacacacnc atctttccaa ttaaactgca 180
ggtagaatga gattttgtgt tattcaaaaa atttgtaagt gatcaaaaanc actgctatgg 240
aatgcctgtt tatctgcctt tgntctggtt aaaatctcat aaaaatacat tcaacaggaa 300
aacatanatt gtatgtgtat aaatatatat gtatatatat atattatata cacatgcaca 360
caaatacttt tgttttttga agcataagat agttacataa atactcctat aattgctaaa 420
gttt 424

```

<210> 568

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(392)

<223> n = A,T,C or G

<400> 568

```

actggctcac tcagagagga cgtccttcaa ctatgccatg aaggaggctg ctgcagcggc 60
tttgaagaag aaaggatggg aggtggtgga gtcggacctc tatgccatga acttcaatcc 120
catcatttcc agaaaggaca tcacaggtaa actgaaggac cctgcgaact ttcagtatcc 180
tgccgagtct gttctggctt ataaagaagg ccatctgagc ccagatattg tgggttganc 240
aaaagaaagc ttggaagccn caagaacctt gtgatattcc agttccccct gcantgggtt 300
tggaagtcc ctgccntttt gaaagctggt ttgaagcgaa tgttcatagg aaagtttgct 360
taccacttac cctgcccatg gtangacaaa ag 392

```

<210> 569

<211> 559

<212> DNA

<213> Homo sapiens

&lt;400&gt; 569

```

aaagagattt attaaatcat cttatcacaa agatggaaac atatacaaac tagaaacatg 60
caaccatcat cttccacagt caagtcacaa tgtcaaata ttttcttgcc tctgcagatg 120
aaaagttcag atcttatacc caactactta ctcaccccgga atatttaagt cagtcttct 180
gaaagtactc agggtagcaa gtaacaaaat gcaaacgatt atataaagaa agtgcagtta 240
aaaaggaaac tatgtggcaa gtaccctctt tcccttccca cccccaatt aaaggcaaac 300
aatggcactt tgctcttgct taacctagat tgtcttcaaa aactattaaa atgtaaaaga 360
cttaacaaaa aaacaaaaag acgtttaaca gatgtcaaaa agctccttag tgtttgaaaa 420
taaagtctta aacaaaagac aacatatctt atatcaaaaa agtttgaaga gccctgaatt 480
gcagcattct gtaacataaa caaacaaaaa gctggtatag gatttattgg caaaggcaga 540
atttcttcaa gcagggtaa 559

```

&lt;210&gt; 570

&lt;211&gt; 368

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 570

```

agccgccgct ggatgctaag tccgatgtca ccaaccagct tgtagatttt cagtggaaac 60
tgggtatggc tgtgagctca gacacttgca gatctcttaa gtatccttac gttgcagtga 120
tgctaaaagt ggcagatcat tcaggccaag taaagaccaa gtgctttgaa atgacgattc 180
cacagtttca gaatttctac agacagttca aggaaattgc tgcagttatt gaaacgggtg 240
gaagacggat tctttgggtg ataaattgct atcattctaa agtcatggac ttcactttcg 300
gcaacaaaac taaataagga tggaacattt attgaatgaa aaatgcactt ttgtttttcc 360
attttttt 368

```

&lt;210&gt; 571

&lt;211&gt; 261

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 571

```

acacgattgc tgcttccgct atatttgtga tataggaatt aagaggatac acacgtttgt 60
ttcttcgtgc ctgttttatg tgcacacatt aggcattgag acttcaagct tttctttttt 120
tgtccacgta tctttgggtc tttgataaag aaaagaatcc ctgttcattg taagcacttt 180
tacggggctg gtggggaggg gtgctctgct ggtcttcaat taccaagaat tctccaaaac 240
aattttctgc aggatgattg t 261

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&lt;210&gt; 572

&lt;211&gt; 488

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 572

```

ctctcagctc tcggcgcaag gccagcttc cttcaaaatg tctactgttc acgaaatcct 60
gtgcaagctc agcttggagg gtgatcactc tacaccccca agtgcataat ggtctgtcaa 120
agcctatact aactttgatg ctgagcggga tgctttgaac attgaaacag ccatcaagac 180
caaagggtgt gatgaggtca ccattgtcaa ctttttgacc aaccgcagca atgcacagag 240
acaggatatt gccttcgcct accagagaag gaccaaaaaa gaacttgcac cagcactgaa 300
gtcagcctta tctggccacc tggagacggt gattttgggc ctattgaaga cacctgctca 360
gtatgacgct tctgagctaa aagcttccat gaaggggctg ggaaccgacg aggactctct 420
cattgagatc atctgctcca gaaccaacca ggagctgcag gaaattaaca gagtctacaa 480
ggaaatgt 488

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<210> 573  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(619)  
 <223> n = A,T,C or G

<400> 573  
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 gaattgaaac cccagaagat aactacaaca aaaacatgtt aatttttttt taaaaatgat 120  
 gattcaaagg cagatttgaa gggaagtaat atttaggtgg cagaagaagg caaatgcagc 180  
 ctctgaaggg aactgttcta attattacct aaaaaataaa gttacacaac tatattcaag 240  
 gacatgagat aaagcactgc ttgaaaacca gaatgactga acagttaggt gaaaaggaac 300  
 agctgaaata ggaaggggaa atggactgaa gaataatttg aatcgggaca gtgatccatc 360  
 agtcctagat gcttctggta tgtaaataac ttgaatcaca ttgtttcctt tcttctgaaa 420  
 tctcaaaggga gaattctcac agcactacat taaggttgcc attttgtag gattcaaaat 480  
 ttcaatccag tagccatcag gatccttgaat aaatgccagg cctttcattt taccatcatc 540  
 aggtttcttc acaaatttga ctccagtctt caaccttttc aagcctgac atcaggaaca 600  
 caattccata tgaccgatc 619

<210> 574  
 <211> 202  
 <212> DNA  
 <213> Homo sapiens

<400> 574  
 acatccaccc cactatttct tcacataccg aatcaggatt gaaatgtcaa aagatgcact 60  
 tcctgagaag gcctgtcagt tggacagtcg ctattggaga ataacaaatg ctaaggggtga 120  
 cgtggaagaa gttcaaggac ctggagtagt tgggtgaattt ccaatcatca gccaggtcg 180  
 ggtatatgaa tacacaagct gt 202

<210> 575  
 <211> 311  
 <212> DNA  
 <213> Homo sapiens

<400> 575  
 ccacagtgtg atcatatagc atctctaaca tttcatctag gattatctag tatagatctt 60  
 actatatttg ggactatgtt gtatacaatg ttaacaagaa catatcttct ctgcatatat 120  
 gtgtgaatta taaagaaaag catgagaatg actctaagtt caacaaacat ggggtgaatct 180  
 ctatgtgctc ccagtgtcct ggatgggctc cccagcaagc cattcctcct tcctgttctg 240  
 atattactat tctttttttac attgtgctaa ggaggacaaa agatgagaga tgaaaaataaa 300  
 gctttgcctt t 311

<210> 576  
 <211> 134  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1)...(134)  
 <223> n = A,T,C or G

<400> 576  
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 agctgcctat tggctggagg ganaggctta ggcaaaancc ctattacttt gcaagggggcc 120  
 cttcaaaagt cgct 134

<210> 577  
 <211> 488  
 <212> DNA  
 <213> Homo sapiens

<400> 577  
 ctgatcagtg ggccctccaag gaggggctgt aaaatggagg ccattgtgtg agcctatcag 60  
 agttgctgca aacctgaccc ctgctcagta aagcacttgc aaccgtctgt tatgctgtga 120  
 cacatggccc ctccccctgc caggagcttt ggacctaata caagcatccc ttgcccaga 180  
 aagaagatgg gggaggaggc agtaataaaa agattgaagt attttgctgg aataagttca 240  
 aattcttctg aactcaaact gaggaatttc acctgtaaac ctgagtcgta cagaaagctg 300  
 cctggtatat ccaaaaagctt tttattcctc ctgctcatat tgtgattctg cctttgggga 360  
 cttttcttaa accttcagtt atgatttttt tttcatacac ttattggaac tctgcttgat 420  
 ttttgccctct tccagtcttc ctgacacttt aattaccaac ctgttaccta ctttgacttt 480  
 ttgcattt 488

<210> 578  
 <211> 476  
 <212> DNA  
 <213> Homo sapiens

<400> 578  
 accatgcatt aagagcttcc tgattgagat tcagtcgcatc agccgtgtct attccatcta 60  
 cgtccacacc gtctgtgacc cactctttga agctgttggg aaaatattca gcaatgtccg 120  
 catcaacttg cagaaagaaa tataaatgac atttcaagga tagaagtata cctgattttt 180  
 ttctttttta ttttcttggt gccaatattca agttccaagt tgctaataca gcaacaattt 240  
 atgaattgaa ttatcttggt tgaaaataaaa aagatcactt tctcagtttt cataagtatt 300  
 atgtctcttc tgagctatct catctatctt tggcagctctg aattttttaa acccatttta 360  
 atttttttcc ttaccttttt atttgcattg ggatcaacca tcgctttatt ggctgagata 420  
 tgaacatatt gttgaaaggt aatttgagag aaatatgaag aactgaggaa aaaaaa 476

<210> 579  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 579  
 ctggtgctca ctgagatggt aggttttccct attttcctgc tacatctgca caagctacat 60  
 ctagaatgaa gccaccaatt tcaatgtgac caggcaatgg cagccagcac tgccttacac 120  
 tggtttgatt ctgattccct aattctggcc actgcaggtg atgagtaagg gtggggatca 180  
 gggagggaagt ccagaagcca gtctttgtct ccctttcctg cttatattta agtgcctatt 240  
 tacatg 246

<210> 580  
 <211> 615

<212> DNA  
<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(615)

<223> n = A,T,C or G

<400> 580

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atgaactgna ttcccaggag ggncacagtc cctacttttg canatgggaa agggaggtgc 120
ccagggtgtg ttctctagac actgggtccg attgctgccc ttgaggatgt agtggtcatt 180
gcacataaac gtgattttgt cacttacatt cacaggccct gaagaactga actctccatt 240
caccagcaca ggatcaggac agtggcccaa ggggcaactca gtagtgggtg tatcccaactc 300
cttagaggca ttgcaaaaaa ggggtcttctt tcttaccagg tggtagccct tgatacaaac 360
gtaagtcctc agaatctgtc cttccacctc ctttgcgaca aatatgctat tgtccactgg 420
aggaagctct ggacagtgtc catctgaagc agaaactcgc cacgcaacca taagacagca 480
cgcacaccaa aaaaacatct ggtgatcaaa gtcctctccc caggctggaa ttcacccagc 540
tcagacacct tacctgtctc tgtccctcca gagttagggc ttcccancaa ggaactgggc 600
ttaactgact tccaa                                     615
```

<210> 581

<211> 576

<212> DNA

<213> Homo sapiens

<400> 581

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actcttggtg agttctgtag agccttctga tgtctctaaa gcactaccga ttctttggag 60
ttgtcacatc agataagaca tatctctaat tccatccata aatccagttc tactatggct 120
gagttctggg caaagaaaaga aagtttagaa gctgagacac aaagggttgg gagctgatga 180
aactcacaaa tgatggtagg aagaagctct cgacaatacc cgttggcaag gagtctgcct 240
ccatgctgca gtgttcgagt ggattgtagg tgcaagatgg aaaggattgt aggtgcaagc 300
tgtccagaga aaagagtcct tgttccagcc ctattctgcc actcctgaca gggtgacctt 360
gggtatttgc aatatttcctt tgggcctctg cttctctcac ctaaaaaaag agaattagat 420
tatattgggt gttctcagca agagaaggag tatgtgtcca atgctgcctt cccatgaatc 480
tgtctcccag ttatgaatca gtgggcagga taaactgaaa actcccattt acgtgtctga 540
atcgagttag acaaaaatttt agtccaaata acaagt                                     576
```

<210> 582

<211> 939

<212> DNA

<213> Homo sapiens

<400> 582

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atgagcatcg gcctcctgtg ctgtgcagcc ttgtctctcc tgtgggcagg tccagtgaat 60
gctgggtgtc ctcagacccc aaaattccag gtcctgaaga caggacagag catgacactg 120
cagtgtgccc aggatatgaa ccatgaatac atgtcctggg atcgacaaga cccaggcatg 180
gggctgaggc tgattcatta ctcagttggg gctgggtatc ctgaccaagg agaagtcccc 240
aatggctaca atgtctccag atcaaccaca gaggatttcc cgctcaggct gctgtcggct 300
gctccctccc agacatctgt gtacttctgt gccagcagtt actcagtcgg ggagggcggg 360
gattcacccc tccacttttg gaatgggacc aggctcactg tgacagagga cctgaacaag 420
```

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gtgttccac cccaggtcgc tgtgtttgag ccacagaag cagagatctc ccacacccaa 480
aaggccacac tgggtgtgct ggcacaggc ttcttcctg accacgtgga gctgagctgg 540
tggtgtaatg ggaaggaggt gcacagtggg gtcagcacgg acccgagcc cctcaaggag 600
cagcccgccc tcaatgactc cagatactgc ctgagcagcc gcctgagggg ctgggccacc 660
ttctggcaga acccccgcaa ccacttcgc tgtcaagtcc agttctacgg gctctcggag 720
aatgacgagt ggacccagga tagggccaaa cccgtcacc agatcgtcag cgcgagggcc 780
tggtgtagag cagactgtgg ctttacctcg gtgtcctacc agcaaggggt cctgtctgcc 840
accatcctct atgagatcct gctagggagg gccaccctgt atgctgtgct ggtcagcgcc 900
cttgtgttga tggccatggt caagagaaag gatttctga 939

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<210> 583  
 <211> 828  
 <212> DNA  
 <213> Homo sapiens

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<400> 583
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aattcagtga cccagatgga agggccagtg actctctcag aagaggcctt cctgactata 120
aactgcacgt acacagccac aggataccct tcccttttct ggtatgtcca atatcctgga 180
gaagggtctac agtcctcct gaaagccacg aaggctgatg acaagggaag caacaaagggt 240
tttgaagcca catacgttaa agaaaccact tctttccact tggagaaagg ctcagttcaa 300
gtgtcagact cagcgggtgta cttctgtgct ccgaaccctt ctcttcaggg cggtatctgaa 360
aagctggtct ttggaaaggg aacgaaactg acagtaaacc catatatcca gaaccctgac 420
cctgccgtgt accagctgag agactctaaa tccagtgaac agtctgtctg cctattcacc 480
gattttgatt ctcaaacaaa tgtgtcacia agtaaggatt ctgatgtgta tatcacagac 540
aaaactgtgc tagacatgag gtctatggac ttcaagagca acagtgtgtg ggccctggagc 600
aacaaatctg actttgcatg tgcaaacgcc ttcaacaaca gcattattcc agaagacacc 660
ttcttcccca gccagaaaag ttctgtgtat gtcaagctgg tcgagaaaag ctttgaaaca 720
gatacgaacc taaactttca aaacctgtca gtgattgggt tccgaatcct cctcctgaaa 780
gtggccgggt ttaatctgct catgacgctg cggctgtggt ccagctga 828

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<210> 584  
 <211> 275  
 <212> PRT  
 <213> Homo sapiens

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<400> 584
Met Asn Tyr Ser Pro Gly Leu Val Ser Leu Ile Leu Leu Leu Leu Gly
          5                      10                      15

Arg Thr Arg Gly Asn Ser Val Thr Gln Met Glu Gly Pro Val Thr Leu
          20                      25                      30

Ser Glu Glu Ala Phe Leu Thr Ile Asn Cys Thr Tyr Thr Ala Thr Gly
          35                      40                      45

Tyr Pro Ser Leu Phe Trp Tyr Val Gln Tyr Pro Gly Glu Gly Leu Gln
          50                      55                      60

Leu Leu Leu Lys Ala Thr Lys Ala Asp Asp Lys Gly Ser Asn Lys Gly
          65                      70                      75                      80

Phe Glu Ala Thr Tyr Arg Lys Glu Thr Thr Ser Phe His Leu Glu Lys
          85                      90                      95

```

Gly Ser Val Gln Val Ser Asp Ser Ala Val Tyr Phe Cys Ala Pro Asn  
 100 105 110  
 Pro Ser Leu Gln Gly Gly Ser Glu Lys Leu Val Phe Gly Lys Gly Thr  
 115 120 125  
 Lys Leu Thr Val Asn Pro Tyr Ile Gln Asn Pro Asp Pro Ala Val Tyr  
 130 135 140  
 Gln Leu Arg Asp Ser Lys Ser Ser Asp Lys Ser Val Cys Leu Phe Thr  
 145 150 155 160  
 Asp Phe Asp Ser Gln Thr Asn Val Ser Gln Ser Lys Asp Ser Asp Val  
 165 170 175  
 Tyr Ile Thr Asp Lys Thr Val Leu Asp Met Arg Ser Met Asp Phe Lys  
 180 185 190  
 Ser Asn Ser Ala Val Ala Trp Ser Asn Lys Ser Asp Phe Ala Cys Ala  
 195 200 205  
 Asn Ala Phe Asn Asn Ser Ile Ile Pro Glu Asp Thr Phe Phe Pro Ser  
 210 215 220  
 Pro Glu Ser Ser Cys Asp Val Lys Leu Val Glu Lys Ser Phe Glu Thr  
 225 230 235 240  
 Asp Thr Asn Leu Asn Phe Gln Asn Leu Ser Val Ile Gly Phe Arg Ile  
 245 250 255  
 Leu Leu Leu Lys Val Ala Gly Phe Asn Leu Leu Met Thr Leu Arg Leu  
 260 265 270  
 Trp Ser Ser  
 275

&lt;210&gt; 585

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 585

Met Ser Ile Gly Leu Leu Cys Cys Ala Ala Leu Ser Leu Leu Trp Ala  
 5 10 15

Gly Pro Val Asn Ala Gly Val Thr Gln Thr Pro Lys Phe Gln Val Leu  
 20 25 30

Lys Thr Gly Gln Ser Met Thr Leu Gln Cys Ala Gln Asp Met Asn His  
 35 40 45

Glu Tyr Met Ser Trp Tyr Arg Gln Asp Pro Gly Met Gly Leu Arg Leu

50					55					60					
Ile	His	Tyr	Ser	Val	Gly	Ala	Gly	Ile	Thr	Asp	Gln	Gly	Glu	Val	Pro
65					70					75					80
Asn	Gly	Tyr	Asn	Val	Ser	Arg	Ser	Thr	Thr	Glu	Asp	Phe	Pro	Leu	Arg
				85					90					95	
Leu	Leu	Ser	Ala	Ala	Pro	Ser	Gln	Thr	Ser	Val	Tyr	Phe	Cys	Ala	Ser
			100					105					110		
Ser	Tyr	Ser	Val	Gly	Glu	Gly	Gly	Asp	Ser	Pro	Leu	His	Phe	Gly	Asn
			115				120					125			
Gly	Thr	Arg	Leu	Thr	Val	Thr	Glu	Asp	Leu	Asn	Lys	Val	Phe	Pro	Pro
	130					135					140				
Glu	Val	Ala	Val	Phe	Glu	Pro	Ser	Glu	Ala	Glu	Ile	Ser	His	Thr	Gln
145					150					155					160
Lys	Ala	Thr	Leu	Val	Cys	Leu	Ala	Thr	Gly	Phe	Phe	Pro	Asp	His	Val
				165					170					175	
Glu	Leu	Ser	Trp	Trp	Val	Asn	Gly	Lys	Glu	Val	His	Ser	Gly	Val	Ser
			180					185					190		
Thr	Asp	Pro	Gln	Pro	Leu	Lys	Glu	Gln	Pro	Ala	Leu	Asn	Asp	Ser	Arg
		195					200					205			
Tyr	Cys	Leu	Ser	Ser	Arg	Leu	Arg	Val	Ser	Ala	Thr	Phe	Trp	Gln	Asn
	210					215					220				
Pro	Arg	Asn	His	Phe	Arg	Cys	Gln	Val	Gln	Phe	Tyr	Gly	Leu	Ser	Glu
225					230					235					240
Asn	Asp	Glu	Trp	Thr	Gln	Asp	Arg	Ala	Lys	Pro	Val	Thr	Gln	Ile	Val
				245					250					255	
Ser	Ala	Glu	Ala	Trp	Gly	Arg	Ala	Asp	Cys	Gly	Phe	Thr	Ser	Val	Ser
			260					265					270		
Tyr	Gln	Gln	Gly	Val	Leu	Ser	Ala	Thr	Ile	Leu	Tyr	Glu	Ile	Leu	Leu
		275					280					285			
Gly	Lys	Ala	Thr	Leu	Tyr	Ala	Val	Leu	Val	Ser	Ala	Leu	Val	Leu	Met
	290					295					300				
Ala	Met	Val	Lys	Arg	Lys	Asp	Phe								
305					310										

<211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 586  
 Glu Val Glu Val Ser Arg Asp His Ala Ser Leu Gly Asp Ser Glu Thr  
                   5                  10                  15  
 Leu Ser Gln Thr Glu Leu Arg Lys Lys Glu Arg Lys Lys Lys Arg Glu  
                   20                  25                  30  
 Arg Lys Phe Gln Ala Asn Cys Gly Ile Asp Phe Ile Ile Phe Trp Ile  
                   35                  40                  45  
 Phe Trp Ile Leu Leu Phe Ser His His Trp Ile Gln Glu Ser Leu Leu  
                   50                  55                  60  
 Cys Pro Pro Ser Pro Lys Glu Val Thr Cys Arg Glu Met Leu Thr Gly  
                   65                  70                  75                  80  
 Gly Cys Leu Pro Trp Ala Thr Arg Ser His Leu Gly Arg Arg Lys Cys  
                   85                  90                  95

Ser

<210> 587  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 587  
 Phe Gln Ala Asn Cys Gly Ile Asp Phe Ile Ile Phe Trp Ile Phe Trp  
   1                  5                  10                  15

<210> 588  
 <211> 530  
 <212> DNA  
 <213> Homo sapiens

<400> 588  
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 ctgcgaggag gtagaggcca cgcggggcca ggtgtgtcag gagcaggagc tgcgcgccgt 120  
 ggtggagagc tgctgctgga gcaggaccgc gcccgcgagg acctccaggc ccggctgcgg 180  
 gagacgtggg ccctggcccc ggatgctgcc ctctgtcttg accagctgcg agcctgtcaa 240  
 gctgagctgt catctcgagt gaggcaggac cagccccctg gtacagccac tctgggccta 300  
 gccgtcccc cagctgactc caagggctgg caagcgtccc tgcaggccat gagcctcccc 360  
 gagctctcgg gagccctgga ggaccgtgtc cgtgagatgg ggcaagcact gtgcttagtg 420  
 acccagagcc tggagaagct gcagggtgctg aacgggaaga agtggcgggg gacctagcct 480  
 gcggggccgaa tctgacgttg ggtgattggt ccaccctgaa gctgtgtgcc 530

<210> 589  
 <211> 349

<212> DNA  
<213> Homo sapiens

<400> 589  
gaattcggca cgaggccagt tcagtctgca agcgccagct cctctcatgg ccggccttacc 60  
caccgccttg ccaatgcccc ggggcaaacc tcataccacc acttccagaa cactgatcat 120  
gacaaccaac aatcaggtac gtggctcctc ggccaccctc ccgctgggtg tccctgggaa 180  
cagcatccga gctgtgatat gcaactagagg agattgatgg tcctttgaat tagaagagta 240  
actttttgag tatttggcca ttgggtgtgt gttctaggaa atcctctctt ttttgtgggtg 300  
ttgagggtccc ccattgtatag ttccagcagc gaggacactg tggttcttg 349

<210> 590  
<211> 509  
<212> DNA  
<213> Homo sapiens

<400> 590  
gaattcggca cgaggcaatc atggcgccac ctgtgagata ctgcatcccc ggccaacgtc 60  
tgtgtaactt ggaggagggc agcccgggca gcggcaccta caccgcacac ggctacatct 120  
tttcgtcgct tgccggctgt ctgatgaaga gcagcgagaa tggcgcgctt ccagtgggtg 180  
ctgtagttag agaaacagag tcccagttac tgccagatgt gggagctatt gtaacctgta 240  
aggtctctag catcaattca cgctttgcca aagtacacat cctgtatgtg ggggtccatgc 300  
ctcttaagaa ctcttttoga ggaactatcc gcaaggaaga tgtccgagca actgaaaaag 360  
acaaggttga aatttataag agtttccgcc caggtgacat tgtcttggcc aaagtgatct 420  
ccttaggtga tgcacagtc aactacctgc taaccaccgc cgagaacgag ctgggagtggtg 480  
tggtagccca cagttagtca ggtatccag 509

<210> 591  
<211> 510  
<212> DNA  
<213> Homo sapiens

<400> 591  
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cgccatggcc gtcaccatca cgctcaaaac gctgcagcag cagaccttca agatccgcat 120  
ggagcctgac gagacgggtga aggtgctaaa ggagaagata gaagctgaga agggctcgtga 180  
tgcttcccc gtggctggac agaaactcat ctatgccggc aagatcttga gtgacgatgt 240  
ccctatcagg gactatcgca tcgatgagaa gaactttgtg gtcgtcatgg tgaccaagac 300  
caaagccggc cagggtacct cagcaccccc agaggcctca cccacagctg cccagagtc 360  
ctctacatcc ttcccgcctg cccccacctc aggcattgtc catccccac ctgccgccag 420  
agaggacaag agcccatcag aggaatccgc cccacgacg tccccagagt ctgtgtcagg 480  
ctcttgttcc ctcttcaggt aacaaccggg 510

<210> 592  
<211> 432  
<212> DNA  
<213> Homo sapiens

<400> 592  
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ctgctcttcc aatacttgag gataggcacc cctaaccctc cttcctccag ggaggcctca 120  
gcatcagtgt ctgtggacgt agtctctgaa gagtgttca gctgatgggg aaggagaaac 180  
tcaagacaga gatcctccta gggatggcgt cactttcctg ccaactttct cgttgccctc 240  
ccttgaaagc agaagaagtg ccagccctca gcttccgtca gatcttgggc tcctagggcc 300



ttgtacaagt ccatggccct ctgggtccag tccaggacgg ccaggcgga ttgggagcag 360  
 cccttatcca aggccacctc agccaccttt ttgattattt tggaaccaat cccttgacct 420  
 cgatatccg gc 432

<210> 593  
 <211> 614  
 <212> DNA  
 <213> Homo sapiens

<400> 593  
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 gaataaatac agtgctcagg gcgagcgaca gattccagtt cttcagacaa acaatgggtcc 120  
 aagtotaaca ggattgacta ctatagcagc tcatctagtc aagcaagcca acaaagaata 180  
 tttgctgggg agtactgcag aagaaaaagc aatcgttcag cagtggtag aatacagggt 240  
 cactcaagta gatgggcact ccagtaaaaa tgacatccac aactgttga aggatcttaa 300  
 ttcatatctt gaagataaag tctaccttac aggtataac tttacattag cagatatact 360  
 attgtactat ggacttcac gctttatagt tgacctgaca gttcaagaaa aggagaaata 420  
 tcttaagtga tctcgtcgtg tttgtcacat tcagcattat ccaggcatca ggcaacatct 480  
 gtctagtgtt ggtcttcac aagaacagac tatatactaa ttcccctaga aagctgtcca 540  
 tgccatacag aagatctatt aaaaaatgtt ttaaaatgga aaatgtactc ttagaaccac 600  
 aggacttaat ggta 614

<210> 594  
 <211> 336  
 <212> DNA  
 <213> Homo sapiens

<400> 594  
 gaattcggca cgaggggac aacagagccg ctccctctc ctgccccgc caccgggacg 60  
 gagagcgccc gccggtgcat ttccggcgac acctcgcagt cattcctgcg gcttgccgcg 120  
 ccttgtagac agccggggcc ttctgtagaa cgggtgcaggc ctgggtagt ctctgtctg 180  
 gacagagaag agaaaaatgc aggacactgg ctcaagagtg cctttgcatt ggtttggtt 240  
 tggtacccca gcaactgggtg ctctcgtgtg gaatatgtc tattgaaaag caagcaagcg 300  
 tgccgtccct ggctgcaggg ctgctctttt ggaagt 336

<210> 595  
 <211> 487  
 <212> DNA  
 <213> Homo sapiens

<400> 595  
 gaattcggca cgagggtgact gtgggaaact cggaacaag ctcacatctt cctgtgggaa 60  
 accttctagc aacaggatga gtctgcagt gactgcagtt gccaccttc tctatgcgga 120  
 ggtctttgtt gtgttgcttc tctgcattcc cttcatttct cctaaaagat ggcagaagat 180  
 tttcaagtcc cggtcgtgtg agttgttagt gtccataggc aacaccttct ttgtggttct 240  
 cattgtcatc cttgtgctgt tggatcatga tgccgtgcgc gaaattcgga agtatgatga 300  
 tgtgacggaa aaggtgaacc tccagaacaa tcccggggcc atggagcact tccacatgaa 360  
 gcttttcctg gccagagga atctctacat tgctggcttt tccttgctgc tgccttct 420  
 gcttagacgc ctggtgactc tcatttcgca gcaggccacg ctgctggcct ccaatgaagc 480  
 ctttaa 487

<210> 596  
 <211> 418  
 <212> DNA

<213> Homo sapiens

<400> 596

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gaattcggca cgaggccgtg acctgctagc tgagcagcgc ttcccggggc gcgtgctgcc 60
ctcggacttg gacctgctgt tgcacatgaa caacgcgcgc tacctgcgcg aggccgactt 120
tgcgcgcgtc ggcacactga cccgctgcgg ggtgctcggg gcgctgaggg agttgcgggc 180
gcacacgggtg ctggcggcct cgtgcgcgcg ccaccgccgc tcgctgcgcc tgcctggagcc 240
cttcgaggtg cgcacccgcc tgcctgggctg ggacgaccgc gcgttctacc tggaggcgcg 300
ctttgtcagc ctgcgggacg gtttcgtgtg cgcgctgctg cgcttccggc agcacctgct 360
gggcacctca cccgagcgcg tcgtgcagca cctgtgccaa cgcaaggtgg aacccct 418
```

<210> 597

<211> 418

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 205

<223> n = A,T,C or G

<400> 597

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gaattcggca cgaggctggc tcccaccctg gagttggctc aacagattga ggaagagacc 60
atcaagtttg ggaaaccgct aggtatccgc actgtggctg tcattggtgg catctccaga 120
gaagaccagg gcttcaggct gcgcattggg tgtgagattg tgattgctcc cctgggcgtt 180
tgattgatgt gctggaaaac ccgtnccttg tgcctgacct gctgtacctt tgtggttctg 240
gatgaggcag ataggatgat tgacatgggc tttgagccag atgtccagaa gatcctggag 300
cacatgcctt gtcagcaaac agaagcccaa acacggatga agcttgagga cccctgagaa 360
aaatgcttgg ccaacttttg agtcgggaaa acattaagta cccgccccaa cagtcatt 418
```

<210> 598

<211> 266

<212> DNA

<213> Homo sapiens

<400> 598

```
gaattcggca cgagggtctt tcaactgagt cctactttta tgtcctgcct gtggtgagca 60
caaagtgtga gcacatcaat cccatttttg tagacgaaga gacagagttg agtgacttgc 120
ccaaagacac agggccagtg aggagttgtg caggtttgcc ctggcattaa aataataaac 180
attgaaattc agtcgattcc cctatggact cagttataga tctcatcagt tgaaggaaga 240
gagatgcctt ttctatttca accttt 266
```

<210> 599

<211> 235

<212> DNA

<213> Homo sapiens

<400> 599

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gaattcggca cgagggtctt tgcagccttt tcgctgggac tgcgcgacac cgccccccga 60
ccgggtgccc gctgtgtgcc aggcggggtg ctgggcacgg tccgcgaggt gccctataag 120
gactgccagg caataatgaa ggttctttta ctgaaggatg cgaaggaaga tgactgtggc 180
caggatccgt atatcaggga attaggatta tatggacttg aagccacttt gatcc 235
```

<210> 600

<211> 386  
 <212> DNA  
 <213> Homo sapiens

<400> 600  
 gaattcggca cgaggggttcc tcgcgggccg ccgggtgctg gtcaccgggg caggcaaagg 60  
 tatagggcgc ggcacgggtcc aggcgctgca cgcgacgggc gcgcgggtgg tggctgtgag 120  
 ccggactcag gcggtatcttg acagccttgt ccgcgagtgc ccggggatag aaccctgtgtg 180  
 cgtggacctg ggtgactggg aggccaccga gcgggcgctt gggcagcgtg ggccccgtgg 240  
 acctgctggt gaacaacgcc cgctgtcgcc ctgctgcagc ccttcctgga ggtcaccaag 300  
 gaggcctttg acagatcctt tgaggtgaac ctgctgcgag catccagtgt cacagattgt 360  
 ggcaggggct taatacccgg gagtcc 386

<210> 601  
 <211> 406  
 <212> DNA  
 <213> Homo sapiens

<400> 601  
 gaattcggca cgaggggctg ctggctggct aagtcctcc cgctcccggc tctcgctca 60  
 ctaggagcgg ctctcggtgc agcgggacag ggcgaagcgg cctgcgcca cggagcgcgc 120  
 gacactgccc ggaagggacc gccacccttg cccctcagc tgcccactcg tgatttccag 180  
 cggcctccgc gcgcgcacga tgccctcggc caccagccac agcgggagcg gcagcaagtc 240  
 gtccggaccg ccacgcgcgt cgggttcctc cgggagttag gcggccgcgg gagccggggc 300  
 cgccgcgcgg gcttctagca ccccgcaacc ggcaccggcg ctgtccagac cgaggccatg 360  
 aagcagattc tcggggtgat cgacaagaaa cttcgggaacc tggaga 406

<210> 602  
 <211> 365  
 <212> DNA  
 <213> Homo sapiens

<400> 602  
 gaattcggca cgaggctcgc ctactagga gcggtctctg gtgcagcggg acagggcgaa 60  
 gcggcctgcg cccacggagc gcgcgacact gcccggaagg gaccgccacc cttgccccct 120  
 cagctgcccc ctctgtattt ccagcggcct ccgcgcgcgc acgatgccct cggccaccag 180  
 ccacagcggg agcggcagca agtcgtccgg accgccaccg ccgtcgggtt cctccgggag 240  
 tgaggcggcc gcgggagccg gggcgcgcgc ccggcttcta gcaccccgca accggcaccg 300  
 gcgctgtcca gaccgaggcc atgaagcaga ttctcggggg gatcgacaag aaacttcgga 360  
 acctg 365

<210> 603  
 <211> 376  
 <212> DNA  
 <213> Homo sapiens

<400> 603  
 gaattcggca cgaggctttg gccactcaga gccccgggc cgcggtcgtc gtacgcctga 60  
 aggcgggtcg tgccggcggc cgtctatgct tccgcctccg ctacggccgg tcctccgggg 120  
 cttctcaatg gtttcccggt ggctctcaa tggttttccc ggcgccctt gcgccgacgc 180  
 caggagactt ccggagcttg gtgacgtcac agagcgagct tttctaccca aatacgcggc 240  
 gggggaatag gctcgagggc ggggagcagt gacaattgct aggcggagac agtgcaaggga 300  
 agagagacct tataaaggat caggactggc gggaggtatt taactgaaag gaatatctgc 360  
 ttcactgttg caacca 376

<210> 604  
 <211> 385  
 <212> DNA  
 <213> Homo sapiens

<400> 604  
 gaattcggca cgaggcttgg gtccgtcgct gcttcgggtgt ccctgtcggg cttcccagca 60  
 gcggcctagc gggaaaagta aaagatgtct gaatatattc gggtaaccga agatgagaac 120  
 gatgagccca ttgaaatacc atcggaagac gatgggacgg tgctgctctc cacgggttaca 180  
 gccagtttc caggggctg tgggcttcgc tacaggaatc cagtgtctca gtgtatgaga 240  
 ggtgtccggc tggtagaagg aattctgcat gcccagatg ctggctgggg aaatctgggtg 300  
 tatgttgtca actatccaaa agataacaaa agaaaaatgg atgagacaga tgcttcatca 360  
 gcagtgaag tgaaaagagc agtcc 385

<210> 605  
 <211> 395  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 375  
 <223> n = A,T,C or G

<400> 605  
 gaattcggca cgagggggag cggagagcgg accccagaga gccctgagca gccccaccgc 60  
 cgccgccggc ctagttacca tcacaccccg ggaggagccg cagctgccgc agccggcccc 120  
 agtcaccatc accgcaacca tgagcagcga ggccgagacc cagcagccgc ccgccgcccc 180  
 cccgccgcc cccgccctca ggcgcgcga caccaagccc ggcactacgg gcagcggcgc 240  
 aaggagcggg ggcccgggcg gcctcacatt cggcgggggc ttgccggcgg ggacaaagaa 300  
 agggcattcg caacgaaggg ttttgggaaa caagtaaaat gggttcaatt gtaagggaac 360  
 cggattttgg ttttnattca accagggaaa ttgac 395

<210> 606  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<400> 606  
 gaattcggca cgagggcagg ggtggctctg gctggcattg cctgagccgg cagtgatgaa 60  
 gtggggagct tgcccttgac aggtgggggc tggctggggc cttaatgtga aaagacagtg 120  
 gcaggcagct ggagtagagc gageccagca gccctaaaag gctgccttca tggccatcta 180  
 gcccagttc agggcagcat ccatagccca caagccagcg tgggtggggc ggggtgggtc 240  
 ccacagctgg gttccacctg aagagcctcc gtgcctcgga gc 282

<210> 607  
 <211> 615  
 <212> DNA  
 <213> Homo sapiens

<400> 607  
 gaattcggca cgaggccggg cggcctgggc aacctgcgct gaagatgccg ggaaaaactcc 60  
 gtagtgacgc tggtttgaa tcagacaccg caatgaaaaa aggggagaca ctgcgaaagc 120

```

aaaccgagga gaaagagaaa aaagagaagc caaaatctga taagactgaa gagatagcag 180
aagagggaaga aactgttttc cccaaagcta aacaagttaa aaagaaagca gagccttctg 240
aagttgacat gaatttctct aaatccaaaa aggcaaaaaa gaaagaggag ccatctcaaa 300
atgacatttc tcctaaaacc aaaagtttga gaaagaaaaa ggagcccatt gaaaagaaag 360
tggtttcttc taaaaccaa aaagtgacaa aaaatgagga gccttctgag gaagaaatag 420
atgctcctaa gcccagaag atgaagaaag aaaaggaaat gaatggagaa actagagaga 480
aaagcccaa actgaagaat ggatttcctc atcctgaacc ggactgtaac cccagtgaag 540
ctgccagtga agaaagtaac agtgagatag agcaggaaat cctgtggaac aaaaagaagg 600
cgctttctct atttt 615

```

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<210> 608
<211> 316
<212> DNA
<213> Homo sapiens

```

```

<400> 608
gaattcggca cgaggagaaa gggaaaaaag gcgtaaagac agacatgaag caagtgggtt 60
tgcaaggaga ccagatccag attctgatga agatgaagat tatgagcgag agaggaggaa 120
aagaagtatg ggcggagctg ccattgcccc acccacttct ctggtagaga aagacaaaga 180
gttaccocga gattttcctt atgaagaagg actcaagacc tcgatcacag tctttccaag 240
cagccctttc ttccccaggt gtaccgaagg aaccaagaac agacccgaga atcttccacc 300
cggaccctta gcaaac 316

```

```

<210> 609
<211> 393
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 267
<223> n = A,T,C or G

```

```

<400> 609
gaattcggca cgagggtgaa accaacttat tgggctcaat cccatttgggt cacaggatac 60
tgtacgtatc ttcttttcca gagatttgat atcaccaga caccgccagc atacataaac 120
gtgttaccag gtttgcccca gtacaccagc atatatacac ccttgccag cctttctcct 180
gaatatcagc taccaagatc agtaccagt gtgccgtctt ttgtagccaa tgacagagca 240
gaaaaaaatg ctggctgcct attttgnngg gcattcattt tgaaatggct tgagaaatgg 300
ttggctgggt caccagaat tggccttctt gaaaaccaca agaatccctt tggaaagggg 360
cttctttttg gggaaaataa tcttggtaaa aag 393

```

```

<210> 610
<211> 454
<212> DNA
<213> Homo sapiens

```

```

<400> 610
gaattcggca cgaggcagca atgoggtaga tatgacgtaa acaaattata attagctag 60
tggaactca gagatcaaaa gaactgcaca ttgcattctg gagcatgaga aatcattttt 120
tttttcatga tgtctaactc tactgaattt attcaatgga gataacagaa agatgattat 180
atatgattaa attacttcca gtattagcag atgcttattt aaatacttgc ttgttctttc 240
tgcaattcca catagaatta aggcaatagt ttaaaagaaa atttaaaaag taacttttct 300
agcattttta tgtagacctg tgaattctaa cacatttgca gtgtagccat cctaagtact 360

```

aaccagactt gaacaaaatc caacttgcaa aaacgatgca atataaatac caatcaccaa 420  
 taataggtag tctcactttt aaaaacctgt gtct 454

<210> 611  
 <211> 613  
 <212> DNA  
 <213> Homo sapiens

<400> 611  
 gaattcggca cgagggtgcgc tcttcgttgc ccagtttccg ctcagtggtc gcgtctccgc 60  
 cccccaccca ccagtcccgc tgcattctcg gccgggctct aggcgccatg gctccccgcg 120  
 ggaggaagcg taaggctgag gccgcggtgg tcgccgtagc cgagaagcga gagaagctgg 180  
 cgaacggcgg ggagggaatg gaggaggcga ccgttggtat cgagcattgc actagctgac 240  
 gcgtctatgg gcgcaacgcc gcggccctga gccaggcgct gcgcctggag gccccagagc 300  
 ttccagtaaa ggtgaacccg acgaagcccc ggaggggcag cttcgaggtg acgctgctgc 360  
 gcccggaacg cagcagtgcg gagctctgga ctgggattaa gaaggggcc ccacgcaaac 420  
 tcaaattccc tgagcctcaa gaggtggtgg aagagttgaa gaagtacctg tcgtagggag 480  
 atttgggtag aagccctcat gctgagcttt gtgtccctgg tgatgttgga acattaatga 540  
 tggaacatgg ccaaacttca gtcatgatcc tgaagccatg gtttcttccc tgccagaaat 600  
 gaaggttcat tat 613

<210> 612  
 <211> 313  
 <212> DNA  
 <213> Homo sapiens

<400> 612  
 gaattcggca cgaggcgaga acgggcacgg ggagcagcag cctcaaccgc cggcgacgca 60  
 gcagcaacag ccccaacagc agcgcggggc cgccaaggag gccgcgggga agagcagcgg 120  
 ccccacctcg ctgttcgcgg tgacgggtggc gccgcccggg gcgaggcagg gccagcagca 180  
 ggcgggaggt aagaagaagg cggaaggcgg cggaggcggc ggtcgccccg gggctccggc 240  
 ggcgggggac ggcaaaaacag aacagaaaag cggagataaa aagaggggtg ttaaaagacc 300  
 accacaagat cat 313

<210> 613  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<400> 613  
 gaattcggca cgaggcctgg ccggggagac gagttgcatg tgttggttca gctggcgata 60  
 gcggcgggag cggagccggc ggggcctgtg cgaccgcctg ggtttggtgaa atggctgctg 120  
 acatttctga atccagcggg gctgactgca aaggagacct aaggaaacagt gccaagttag 180  
 atgccgatta cccacttoga gtcctttatt gtggagtctg ttcattacca acagagtact 240  
 gtgaatatat gcctgatgtt gctaaatgta gacaatggtt agagaagaat tttccaaatg 300  
 aatttgcaaa acttactgta gaaaattcac ccaaacaaga agctggaatt agtgagggtc 360  
 aaggaacagc aggggaagaa gaggagaaga aaaaacagaa gagaggtgga aggggtcaaa 420  
 taaaacaaaa aaagaagacc gtaccacaaa aggttactat agccaaaatt ccagagcaa 480  
 agaagaaata tgtgacaaga gtatgtggcc ttgcaacttt tgaaattgat cttaaagaag 540  
 cacaaagatt ttttgct 557

<210> 614  
 <211> 627  
 <212> DNA

<213> Homo sapiens

<400> 614

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gaattcggca cgaggctcac taggagcggc tctcgggtgca gcgggacagg gcgaagcggc 60
ctgcgcccac ggagcgcgcg aactgcccc gaagggaccg ccaccttgcc cccctcagct 120
gcccactcgt gatttccagc ggctccgcg cgcgacgat gccctcggcc accagccaca 180
gcgggagcgg cagcaagtcg tccggaccgc caccgccgtc gggttcctcc gggagtgagg 240
cgcccgcggg agccggggcc gccgcgcgg cttctcagca ccccgcaacc ggcaccggcg 300
ctgtccagac cgaggccatg aagcagattc tcggggtgat cgacaagaaa cttcggaacc 360
tggagaagaa aaagggttaag cttgatgatt accaggaacg aatgaacaaa ggggaaaggc 420
ttaatcaaga tcagctggat gccgtttcta agtaccagga agtcacaaat aatttggagt 480
ttgcaaaaga attacagagg agtttcatgg cactaagtca agatattcag aaaacaataa 540
agaagacagc acgtcgggag cagcttatga aaaaagaact gaacagaaac gtttaaaaac 600
ttgtacttga actacagtat tgtttgg 627

```

<210> 615

<211> 474

<212> DNA

<213> Homo sapiens

<400> 615

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gaattcggca cgaggggagag aacgaccccc ggaccgacca aagcccgcg cccgctgcat 60
cccgcgtcca gcacctacgt cccgctgccg tcgccgcgc caccatgcc aagagaaagg 120
ctgaaggagg tgctaaggga gataaagcaa aggtgaagga cgaaccacag agaagatccg 180
cgaggttgtc tgctaaacct gtcctccaa agccagagcc caagcctaaa aaggccccctg 240
caaagaaggg agagaaggta cccaaaggga aaaagggaag agctgatgct ggcaaggagg 300
ggaataacct tgcagaaaat ggagatgcc aaacagacca ggcacagaaa gctgaagggtg 360
ctggagatgc caagtgaagt gtgtgcattt ttgataactg tgtacttctg gtgactgtac 420
agtttgaaat actatTTTTT atcaagtttt ataaaaatgc agaattttgg tttta 474

```

<210> 616

<211> 576

<212> DNA

<213> Homo sapiens

<400> 616

```

gaattcggca cgagggggaat ctgtgaagct cactactgga ccaaacaacg ctggagctca 60
aagtagttct tcatgtggga cttctggcct tccagtttct gcacagacag ccttggcaga 120
acaacagcca aaaagcatga aaagcccagc ttctccagag cctggtttct gtgctactct 180
ttgccctatg gtagaaattc cacctaaaga tataatggca gaattggagt cagaggatat 240
cttgatccct gaagaatctg taattcagga ggaaattgca gaagaggtag agactagtat 300
ctgtgaatgc caggatgaaa atcataagac aatacctgaa ttttctgagg aggtgaaaag 360
tctaaccaat tctcatgaag aacccccaaat agcacctcct gaagataact tggaatcctg 420
tgttatgatg aatgatgttt tagaaaactt gccctcatatt gaagttaaga tagaagggaa 480
gtcagaatca cccaggaag aaatgacagt tgttatcgat cagttagaag tctgtgactc 540
tcttattcct tccatttcat ctatgactca tgtcag 576

```

<210> 617

<211> 514

<212> DNA

<213> Homo sapiens

<400> 617

```

gaattcggca cgaggcagag aggtttgcc aagagcgcag gctgagaata tggagagact 60

```

```

atgtggctcc cacagctaatt ttggaccaaa aggacaagca gtttgttgcc aaggtgatgc 120
aggttctgaa tgctgatgcc attgttgtga agctgaactc aggcgattac aagacgattc 180
acctgtccag catccgacca ccgaggctgg agggggagaa caccaggat aagaacaaga 240
aactgcgtcc cctgtatgac attccttaca tgtttgaggc cgggaattt cttcgaaaaa 300
agcttattgg gaagaaggtc aatgtgacgg tggactacat tagaccagcc agcccagcca 360
cagagacagt gcctgccttt tcagagcgta cctgtgccac tgtcaccatt ggaggaataa 420
acattgctga ggctcttgtc agcaaaggtc tagccacagt gatcagatac cggcaggatg 480
atgaccagag atcatcacac tacgatgaac tgct                                     514

```

```

<210> 618
<211> 456
<212> DNA
<213> Homo sapiens

```

```

<400> 618
gaattcggca cgagggggcg ggcaggcggg caggccggca ggcgggtgcg cggagggctg 60
gtgcccgcga gcaggtgggc ggggtgcggt tggcgcggcg ggctgggccc ggggctgccg 120
gctgcgctcg ggccgtgcgc ggcggccgtg cgggcacgcc atggacttca acatgaagaa 180
gctggcgctcg gacgcgggca tcttcttcac ccgggcggtg cagttcacgg aggagaaatt 240
tggccaggct gagaagactg agcttgatgc ccactttgaa aaccttctgg cccgggcaga 300
cagcaccaag aactggacag agaagatctt gaggcagaca gaggtgctgc tgcagcccaa 360
ccccagtgcc cgagtggagg agttcctgta tgagaagctg gacaggaagg tcccctcaag 420
ggtcaccaac ggggagctgc tggctcagta catggc                                     456

```

```

<210> 619
<211> 262
<212> DNA
<213> Homo sapiens

```

```

<400> 619
gaattcggca cgaggcagaa gccctagct cctctgagcc tcatggggcc agaggaagca 60
gtagttcggg cggcaagaaa tgctacaagc tggagaatga gaagctgttc gaagagttcc 120
ttgaactttg taagatgcag acagcagacc accctgaggt ggtcccatc ctctataacc 180
ggcagcaacg tgcccaactc ctgtttttgg cctcggcgga gttctgcaac atcctctcta 240
gggtcctgtc tcgggcccgc ac                                     262

```

```

<210> 620
<211> 205
<212> DNA
<213> Homo sapiens

```

```

<400> 620
gaattcggca cgaggattta tgggccactg cacatgcccg ctgcagccct gggatcagct 60
ggaagctgcc tgtcatctcc tgcccaatcc ccagaaaccc tgattcaggt ctgcaggctc 120
ctgcgggctc accaggctgc tggctccggt accatgtaaa cctaggaagg taaaggagca 180
ggcaacctcc tcgtggcctg tgtgt                                     205

```

```

<210> 621
<211> 483
<212> DNA
<213> Homo sapiens

```

```

<400> 621
gaattcggca cgaggcctgg ccgggaccgt gtgggcccgt aggatgagga cggctgggag 60

```



```

acgcgagggg accgcaaggc ccggaagccc ctggtggaga agaagcggcg cgcgcggatc 120
aacgagagcc tgcaggagct gcggctgctg ctggcgggcg ccgaggtgca ggccaagctg 180
gagaacgccg aagtgtgga gctgacgggt gcggcggtcc aggtgtgtgt gcggggccgg 240
gcgcgcgagc gcgagcagct gcaggcggaa gcgagcgaac gcttcgctgc cggctacatc 300
cagtgcattgc acgaggtgca cacgttcgtg tccacgtgcc aggccatcga cgtaccgtt 360
ctgccgagct cctgaaccat ctgctcgagt ccatgccgct gcgtgagggc agcaacttca 420
ggatctgctg ggggacgccc tgcggggcca cctaaatccc ctggacggaa tggctggctg 480
cgg 483

```

```

<210> 622
<211> 562
<212> DNA
<213> Homo sapiens

```

```

<400> 622
gaattcggca cgagggcgct gcgggtagga gccgggttgc gggagacccc aggttcgggtt 60
gggattccca gccagaacgg agcttaagcc gggcaggcga gcgaatgacg gagtagcgag 120
ctgcacggcg gcgtgctgcy ctgttgagga cgctgtcccg cgcgctccca ggccgccccg 180
aggttgggg tcttcgaagg ataatcggcg cccggggccg aacagcgggg gcacacgggg 240
cgctgccgaa gtgcaaggcc acggccagag ctgcagcccg acgcgctgtc tggagtctga 300
ggttgccgac gtttggggtc ggggtctgag gcttggggcg tgctggggcc gagcggagat 360
cgggggttgc ctcccgctcc cgctcaggac cctgacgtgg ctgaagcggc cccgggagca 420
tgagcggcag cgcgtggacg tcaaggtggt gatgctgggc aaggagtacg tgggcaagac 480
tagcctggtg gagcgtacg tgcacgaccg ctttctggtg gggccttatc agaaccat 540
cggggccgcc ttcgtggcca ag 562

```

```

<210> 623
<211> 645
<212> DNA
<213> Homo sapiens

```

```

<400> 623
gaattcggca cgaggctgag agagagcaca gcctggtggg ttctggggtc tacggcctag 60
gggccgggga agtttgcgcc gccgcgacca gtgctgcgat cccgagcccg gctccagccc 120
cgaggaccag gggtcgggcy ggcctgccta cggaaccccg cgggccagca gcagtcgtct 180
cgcgtcctcc tgcttggaag agtggttaag cttctaaaat gtcattctatc aagcacctgg 240
tttatgcagt tattcgtttc ttaocgggaa aaagtcagat ggacacttac acctcggtg 300
aacaagaaaag tttggaagtt gcaattcagt gcttggagac agtttttaag atcagcccag 360
aagatacaca cctagcagtt tcacagcctt tgacagaaat gtttaccagt tccttctgta 420
agaatgacgt tctgcccctt tcaaactcag tgctgaaga tgtgggaaaa gctgaccaat 480
taaaagatga aggcaataac cacatgaaag aagaaaatta tgctgctgca gtggattgtt 540
acacacaggc aatagaattg gatcccaata atgcagttta ctattgcaac agggctgctg 600
ctcagagcaa attaggtcac tacacagatg cgataaagga ttgtg 645

```

```

<210> 624
<211> 521
<212> DNA
<213> Homo sapiens

```

```

<400> 624
ctgagcgtct ctgcttagcc gcgggtcatga gccggcacag ccggctgcag aggcaggttc 60
tgagcctgta ccgcgatctg ctgcgcgccg ggcgtgggaa gccgggccc gaggcgcgag 120
tgccggcaga gttccggcag catgcgggcc tgcccggtc cgacgtgctg cgcattcag 180
acctgtaccg ccgcgggcyg cgccagctgc agctgctacg ctccggccac gccaccgcca 240

```

```

tgggcgcctt cgtacgcccg cgggccccga cgggggagcc tggcggcgtg ggttcccagc 300
ctgacgacgg cgacagtcca aggaaccccc acgacagcac gggggcaccg gagacccgcc 360
ccgacggacg gtgacaggcg aagagccgaa ctgcctcgat ggcgtgggtg agccaggagg 420
ctgcctgac tgcattgggg gactggggaa cccgcctaag gtgagaggtc ttaagagact 480
agcttgacga attggggatg tcagagactc ctccttggcg a 521

```

```

<210> 625
<211> 375
<212> DNA
<213> Homo sapiens

```

```

<400> 625
gaattcggca cgaggagaac atgcagtcta ggaaccggca tgcgcataac ctcaggatat 60
aaataatgct gaagcagagt tacgtttttt ttgttgttgt tttttttgtt tttgtttttt 120
taggtttccg tgtgtttcta ttgagctgct cagtgcccg cttagaagac caggaaaagg 180
agtcacagggt cgtatgctgg aggcttgagc cgcggcaccg tggcgcggct cgctcgctg 240
cggttggtgg tggcgggtgga cattgcagcg cggctggagg gggtccttag acaagggtgca 300
agacaaacag aagagggcat gtgggggtcaa actcctactg cctgcctgat tttctgccac 360
aggacaaatt cacca 375

```

```

<210> 626
<211> 628
<212> DNA
<213> Homo sapiens

```

```

<400> 626
gaattcggca cgaggaaaat ggttcgctat tcacttgacc cggagaaccc cacgaaatca 60
tgcaaatcaa gaggttccaa tcttcgtgtt cactttaaga acactcgtga aactgctcag 120
gccatcaagg gtatgcatat acgaaaagcc acgaagtatc tgaaagatgt cactttacag 180
aaacagtgtg taccattccg acgttacaat ggtggagttg gcaggtgtgc gcaggccaag 240
caatggggct ggacacaagg tcggtggccc aaaaagagtg ctgaattttt gctgcacatg 300
cttaaaaacg cagagagtaa tgctgaactt aagggtttag atgtagattc tctggtcatt 360
gagcatatcc aagtgaacaa agcacctaag atgcgccgcc ggacctacag agctcatggt 420
cggattaacc catacatgag ctctccctgc cacattgaga tgatccttac ggaaaaggaa 480
cagattgttc cttaaaccaga agaggaggtt gccagaaga aaaagatatc ccagaagaaa 540
ctgaagaaac caaaacttat ggacacggag taaattctca ttaaaataaa tgtaattaaa 600
aggaaaaaaa aaaaaaaaaa aactcgag 628

```

```

<210> 627
<211> 645
<212> DNA
<213> Homo sapiens

```

```

<400> 627
gaattcggca cgaggagaaa acgaagcagc gttggaaaat ggaattaaaa atgaggaaaa 60
cacagaacca ggtgctgaat cttctgagaa cgctgatgat cccaacaaag atacaagtga 120
aaacgcagat ggtcaaagtg atgagaacaa ggacgactat acaatcccag atgagtatag 180
aattggacca tatcagccca atgttcctgt ttgtatagac ctaaaacagg 240
gttttactgt aagctgtgtt cactctttta tacaatatga gaagttgcaa agaatactca 300
ttgcagcagc cttcctcatt atcacaaaatt aaagaaattt ctgaataaat tggcagaaga 360
acgcagacag aagaaggaaa cttaagatgt gcaaggagat ttaatgattt caaagaaaat 420
aatggttctt tgtttttaatt gttaaccttt tttaaatata atactgatag ttagaagaaa 480
actattgtac tcttttgttt tagtggagaa ataatagatg tctgttcatt tgtaagtgt 540
tatagcaaaa aaaatacaca tatggttaag ttaatgaata gtttttgttt tatcagaatg 600

```

gcaacagaca gaagtacttt gtagagattg acttcctaag ctctt

645

<210> 628  
 <211> 625  
 <212> DNA  
 <213> Homo sapiens

<400> 628  
 gaattcggca cgaggggatt cagcagcctc ccccttgagc cccctcgctt cccgacgttc 60  
 cgttccccc tgcgcgctt ctcccgccac cgccgcgcc gccttcgca ggccgtttcc 120  
 accgaggaaa aggaatcgta tcgtatgtcc gctatccaga acctccactc ttctgacccc 180  
 ttgtctgatg caagtaaggg tgatgacctg ctctctgctg gcactgagga ttatatccat 240  
 ataagaattc aacagagaaa cggcaggaag acccttacta ctgtccaagg gatcgctgat 300  
 gattacgata aaaagaaact agtgaaggcg ttttaagaaaa agtttgctg caatgggtact 360  
 gtaattgagc atccggaata tggagaagta attcagctac aggttgacca acgcaagaac 420  
 atatgccagt tcctcgtaga gattggactg gctaaggacg atcagctgaa ggttcatggg 480  
 ttttaagtgc ttgtggctca ctgaagctta agtgaggatt tccttgcaat gagtagaatt 540  
 tcccttctct tccttgtcac aggtttaaaa acctcacagc ttgtataatg taaccatttg 600  
 ggtccgctt ttaacttgga ctagt 625

<210> 629  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

<400> 629  
 gaattcggca cgagggagcc caggaggtca aggtacagt gagccgtgat catgccactg 60  
 cactccagcc tgggtgacag agcgagaccc tgtctcttaa caacaaaacc catgagcggc 120  
 agccccccag tcctggatgg tggtaaagaa tcctcaagat caaaccacg cagtgtctgag 180  
 agcttgacct gattctaggg ctggggctgg agaaactgct agagatgatg ccgatagcca 240  
 gtgtgatccc cctgccctga tggtaaggg cagagtgcag actggaacct tcccctcccc 300  
 aaagattcag acctgtgggg ctgagtgggc catagtgtc cccaagtcct gagaggctgg 360  
 tgtctggctt cagcctccag ctctcaggt tctgatgcag tcagctgagt tccctgccta 420  
 ttcttgcaag cactaggagg aagggtggtg gggttgctggg aacagcaccc agcgccctcc 480  
 ccaccagat tcacagagca cactccccgg ggggatactt taatccggag gccgtgacgc 540  
 ctgct 545

<210> 630  
 <211> 605  
 <212> DNA  
 <213> Homo sapiens

<400> 630  
 gaattgggca cgaggcgggc cgcagctttt cggttcacag cgggcagga aagccgcggg 60  
 aagggtactc caggcgagag gcggacgcga gtcgtcgtgg caggaaaagt gactagctcc 120  
 ccttcgttgt cagccaggga cgagaacaca gccacgctcc caccggctg ccaacgatcc 180  
 ctcgggggcg atgtcgcccg ccggtgcccg aggcctgccc gccacctacc accggctcct 240  
 cgataaagtg gagctgatgc tgcccagaa attgaggccg ttgtacaacc atccagcagg 300  
 tcccagaaca gtttttttct gggtccaat tatgaaatgg gggttggtgt gtgctggatt 360  
 ggctgatatg gccagacctg cagaaaaact tagcacagct caatctgctg ttttgatggc 420  
 tacagggttt atttggtcaa gatactcact tgtaattatt ccaaaaaatt ggagtctgtt 480  
 tgctgttaat ttctttgtgg gggcagcagg agcctctcag ctttttcgta tttggagata 540  
 taaccaagac taaaagctaa agcacacaaa taaaagagtt ctgatcacct gaacaatcta 600  
 gatgt 605

<210> 631  
 <211> 364  
 <212> DNA  
 <213> Homo sapiens

<400> 631  
 gaattcggca cgaggcgac acgagaacat gcctctcgca aaggatctcc ttcattccctc 60  
 tccagaagag gagaagagga aacacaagaa gaaacgcctg gtgcagagcc ccaattccta 120  
 cttcatggat gtgaaatgcc caggatgcta taaaatcacc acggtcttta gccatgcaca 180  
 aacggtagtt ttgtgtgttg gctgctccac tgtcctctgc cagcctacag gaggaaaagc 240  
 aaggcttaca gaaggatgtt ccttcaggag gaagcagcac taaaagcact ctgagtcaag 300  
 atgagtggga aaccatctca ataaacacat tttggataaa aaaaaaaaaa aaaaaaaact 360  
 cgag 364

<210> 632  
 <211> 545  
 <212> DNA  
 <213> Homo sapiens

<400> 632  
 gaattccggc acgaggggac cccagagagc cctgagcagc cccaccgccc ccgcccggcct 60  
 agttaccatc acaccccgga aggagccgca gctgccgag ccggccccag tcaccatcac 120  
 cgcaaccatg agcagcgagg ccgagaccca gcagccgccc gccgcccccc ccgcccggcct 180  
 cgccctcagc gccgcccaga ccaagcccgg cactacgggc agcggcgagc ggagcgggtg 240  
 cccggggcgc ctacatcgga cggcgccctg cggcggggac aagaagggtc tgcgaacgaa 300  
 gggtttggga acagtaaaat ggttcaatgt aaggaacgga tatggtttca tcaacaggaa 360  
 tgacaccaag gaagatgtat ttgtacacca gactgccata aagaagaata accccaggaa 420  
 gtaccttcgc agtgtaggag atggagagac tgtggagttt gatgttggtg aaggagaaaa 480  
 gggtcgggag gcagcaaatg ttacagggtc tgggtggtgt ccagttcaag gcagtaataa 540  
 tgcag 545

<210> 633  
 <211> 506  
 <212> DNA  
 <213> Homo sapiens

<400> 633  
 gaattcggca cgaggctggt cactccgcca ccgtagaatc gcctaccatt tgggtgcaagc 60  
 aaaaagcaat cagcaattgg acaggaaaag aatggcattg aagcagattt ccagcaacaa 120  
 gtgctttggg ggattgcaga aagtttttga acatgacagt gttgaactaa actgcaaaaat 180  
 gaaatttgct gtctacttac caccaaaaggc agaaacagga aagtgccttg cactgtattg 240  
 gctctcaggt ttaacttgca cagagcaaaa ttttatatca aaatctggtt atcatcagtc 300  
 tgcttcagaa catggtcttg ttgtcattgc tccagatacc agccctcgtg gctgcaatat 360  
 taaaggtgaa gatgagagct gggacttttg cactggtgct ggattttatg ttgatgccac 420  
 tgaagatcct tggaaaacca actacagaat gtactcttat gtcacagagg agcttcccca 480  
 actcataaat gccaattttc cagtgg 506

<210> 634  
 <211> 485  
 <212> DNA  
 <213> Homo sapiens

<400> 634

```

gaattcggca cgagggagtt gtgggcccag gagccctgcg gctgccggca ggtgaactga 60
gtgcccagaca gctgagaccg gcgcccaccc gtccctgagca tagctctgta ggcagtgcgg 120
gcatagcctg catagtgtcc tggcgctggg agttccccgt ggacagagcc agagggcagt 180
ggcgctccct gtcagagctg gatcaggccc cccatcgagg agggagggca gacggaggcc 240
cgagagcctc cccaggcctc ttcgtgggaa ggccccagta ccactcgtag gaggtctcag 300
ctctggcatg gctgccccgg atgtggccga gggggcttca ccctgtgtcc ttaggagggg 360
gtggccttga ggcaagagcc gtgcctcact gacccccagg ggcctcatcc tccccatgga 420
atgggctgta tgtcctgccc caacttggcc cgcagcaggc cagaccccc caccgccgcc 480
cagag                                         485

```

```

<210> 635
<211> 615
<212> DNA
<213> Homo sapiens

```

```

<400> 635
gaattcggca cgaggcttac aaggaaaatg ctgacttatg accggcgctc tgagcctcag 60
gttggggagc gagtgccata cgtcatcatt tatgggaccc cgggagtacc acttatccag 120
cttgtaaggc gccagtgga agtcctgcag gacccaactc tgagactgaa tgctacttac 180
tatattacca agcaaatcct tccacccttg gcaagaatct tctcacttat tggattatgat 240
gtcttcagct ggtatcatga attaccaagg atccataaag ctaccagctc ctgcggaagt 300
gaacctgaag ggcggaaagg cactatttca caatatTTta ctaccttaca ctgtcctgtg 360
tgtgatgacc taactcagca tggcatctgt agtaaagtgc ggagccaacc tcagcatgtt 420
gcagtcatcc tcaaccaaga aatccgggag ttggaacgtc aacaggagca acttgtaaag 480
atatgcaaga actgtacagg ttgctttgat cgacacatcc catgtgtttc tctgaactgc 540
ccagtacttt tcaaactctt ccgagtaaag agagaattgt ccaaggcacc atatcttcgg 600
cagttattaa accag                                         615

```

```

<210> 636
<211> 504
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12
<223> n = A,T,C or G

```

```

<400> 636
gaattcggca cnaggccaaa acctgttttg gaagcatatt acagaaatga tttcaagtac 60
cctgtattct ggatgctaaa aaacaaaaac aaacaaaaaa acaaaaaaaa aaaaacaaaa 120
ccagaatcag gtaaaacagc tatgtgatta aaatatttta attcttcagc aattacccgg 180
ttttctaaat tgaatcatgc atctatttat aattctaatt attttgtaaa agaagacaaa 240
attatgaatc ttaagtattt gctccatctt tttctctgta atggtggaga ggctgcccat 300
aattcatctc cacatggagc caagtttaat gtttctagt cacttttgt acttctgtca 360
tgcttatttc aaactccctg agtgatgggt aagaaatcaa acattgcctc agtggtatca 420
agagaacttt ggtggtggtt tcttcagaat catgaagttc ttttgccaga taaatatttt 480
gatattattt tccttttttaa tata                                         504

```

```

<210> 637
<211> 449
<212> DNA
<213> Homo sapiens

```

&lt;400&gt; 637

```

gaattcggca cgaggttttaa accctgcgtg gcaatccctg acgcaccgcc gtgatgccca 60
gggaagacag ggcgacctgg aagtccaact acttccttaa gatcatccaa ctattggatg 120
attatccgaa atgttttcatt gtgggagcag acaatgtggg ctccaagcag atgcagcaga 180
tccgcatgtc ccttcgcggg aaggctgtgg tgctgatggg caagaacacc atgatgcgca 240
aggccatccg agggcacctg gaaaacaacc cagctctgga gaaactgctg cctcatatcc 300
gggggaatgt gggctttgtg ttcaccaagg aggacctcac tgagatcagg gacatgttgc 360
tgccaataa ggtgccagct gctgccgtgc tggtgccatt gccccatgtg aagtcactgt 420
gccagcccag aacactggtc tcggggccc 449

```

&lt;210&gt; 638

&lt;211&gt; 524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 638

```

gaattcggca cgaggggttga ttatggcaag aagtccaagc tggagttctc catttaccca 60
gcaccccagg tttccacagc tgtagttgag ccctacaact ccatcctcac caccacacac 120
accctggagc actctgattg tgccttcatt gtagacaatg aggccatcta tgacatctgt 180
cgtagaaaacc tcgatatcga gcgcccaccc tacactaacc ttaaccgcct tattagccag 240
attgtgtcct ccatcactgc ttccctgaga tttgatggag ccctgaatgt tgacctgaca 300
gaattccaga ccaacctggt gccctacccc cgcattccact tccctctggc cacatatgcc 360
cctgtcatct ctgctgagaa agcctaccat gaacagcttt ctgtagcaga gatcaccaat 420
gcttgctttg agccagccaa ccagatggtg aaatgtgacc ctgcgccatg taaatacatg 480
gcttgctgcc tgttggtaccg tggtgacgtg gttcccaaag atgt 524

```

&lt;210&gt; 639

&lt;211&gt; 524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 639

```

gaattcggca cgagggcttc tcaactgagt cctactttta tgcctgcct gtggtgagca 60
caaagtgtga gcacatcaat cccatttttg tagacgaaga gacagagttg agtgacttgc 120
ccaaagacac agggccagtg aggagttgtg caggtttgcc ctggcattaa aataataaac 180
attgaaattc agtcgattcc cctatggact cagttataga tctcatcagt tgaaggaga 240
gagatgcctt ttccatttca gcctttttgc aatccttcca tctagaggag atgtatctta 300
taatattctc aaaggcactc tgttgctaat agcagccttg atgaggtccc atatagctca 360
ttggaagcag agctagtctt ggaaactgaa aatgttgagc cagagtctgc ccattccttt 420
agctctgggt ccagctgtgg tctgggggtg aatggagtct gaccttgcct cacacagggc 480
ctgtctgttc tcattgtggc catccacatc ctggagctgc tcat 524

```

&lt;210&gt; 640

&lt;211&gt; 524

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 640

```

gaattcggca cgaggggaga ctacaaggat agggccagga gtaatggagt ccaaagagaa 60
acgagcagta aacagtctca gcatggaaaa tgccaacca gaaaatgaag aaaaggagca 120
agttgctaataa aaaggggagc ccttgccctt ccctttggat gctgggtgaat actgtgtgcc 180
tagaggaaat cgtaggcggg tccgcgttag gcagccatc ctgcagtata gatgggatat 240
gatgcatagg cttggagaac cacaggcaag gatgagagaa gagaatatgg aaaggattgg 300
ggaggagggt agacagctga tggaaaagct gagggaaaag cagttgagtc atagtctgcg 360

```

```

ggcagtcagc actgaccccc ctcacatga ccatcatgat gagttttgcc ttatgccctg 420
aatcctgatg gtttccctaa agttattacg gaaacagacc cctgctttcg aatttacatg 480
ttcatgatgt gcccttggtg taaaccttta cctgtcactt gttt 524

```

```

<210> 641
<211> 523
<212> DNA
<213> Homo sapiens

```

```

<400> 641
gaattcggca cgaggcctcg tgccgtgcc cccgaggtat gcgggggtcac tcgctgctcg 60
atgttccctc cgaagggtcg gacaaggctc cggagccctg tagctgccct ccctaggagc 120
cccgggtctt cactggccga ggtgcccacc ccgcagcatt ctgggagtgg tagttttctt 180
ccttcagggtt cattcctggc tggccagtgc ccaagactgg cgagactacg attcccagac 240
gcccaagcga gtcgccggtc acgtggccgc aaggacgctg ggccggtggg cggggggcgg 300
caggtgctcc gcagccgtct gtgccacca gagccggcgg gccgctaggt ccccgaggac 360
cctgctatgg tgcgtgcggg cgccgtgggg gctcatctcc ccgctccgg cttggatata 420
ttcggggacc tgaagaagat gaacaagcgc cagctctatt accaggtttt aaacttcgcc 480
atgatcgtgt cttctgcact catgatatgg aaaggcttga tcg 523

```

```

<210> 642
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<400> 642
gaattcggca cgagggtgaa ggtgtgtgtc agcttttgcg tcaactcgagc cctgggcgct 60
gcttgctaaa gagccgagca cgcggtctcg tcatcatgtc gcgttacggg cggtagcgag 120
gagaaaccaa ggtgtatgtt ggtaacctgg gaactggcgc tggcaaagga gagttagaaa 180
gggctttcag ttattatggc cctttaagaa ctgtatggat tgcgagaaat cctccaggat 240
ttgcctttgt ggaattcgaa gatcctagag atgcagaaga tgcagtacga ggaactggatg 300
gaaaggtgat ttgtggctcc cgagtggagg ttgaactatc gacaggcatg cctcggagat 360
cacgttttga tagaccacct gccgaogtc cctttgatcc aaatgataga tgctatgagt 420
gtggcgaaaa gggacattat gcttatgatt gtcatcggtt cagccggcga agaagaagca 480
gttcacggtc tagatcacat tctcgatcca gaggaaggcg atac 524

```

```

<210> 643
<211> 523
<212> DNA
<213> Homo sapiens

```

```

<400> 643
gaattcggca cgagggtgaa caccagaata tttggcaaag ggagaaaaaa aaagcagcga 60
ggcttcgcct tccccctctc cctttttttt tctctctctt ccttctctct ccagccgccg 120
ccgaatcatg tcgatgagtc caaagcacac gactccgttc tcagtgtctg acatcttgag 180
tccccctggag gaaagctaca agaaagtggg catggagggc ggccggcctcg gggctccgct 240
ggcggcgctac aggcagggcc aggcggcacc gccaacagcg gccatgcagc agcacgccgt 300
ggggcaccac ggccgcgtca ccgccgccta ccacatgacg gcggcggggg tgccccagct 360
ctcgcactcc gccgtggggg gctactgcaa gcgcaacctg ggcaacatga gcgagctgcc 420
gccgtaccag gacaccatga ggaacagcgc ctctggcccc ggatggtacg gcgccaacct 480
agaccgcgcg tcccccgcca gttctttttt ttcaggatca ggc 523

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<210> 644
<211> 525

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<212> DNA  
<213> Homo sapiens

<400> 644  
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ggagtgaac aagggtctga ggaaagcgcc cagctgagga tgatgtaccc aggaaagcca 120  
aaagaaaaac taataagggg ctggctcatt acctcaagga gtataaagag gccatacatg 180  
atatgaattt cagcaatgag gacatgataa gagaatttga caatatggct aagggtgcagg 240  
atgagaagag aaaaagcaaa cagaaattgg gggcggtttt gtggatgcaa agaaatttac 300  
aggaccctt ctaccctaga ggtccaaggg aattcagggg tggctgcagg gccccacgaa 360  
gggacattga agacattcct tatgtgtagt gtccctggca ggcatttacc aggccatgtg 420  
ctttaacgtt cggtaatact ttactttagg catccctcct gttgctagca gccttttgac 480  
ctatctgcaa tgcagtgttc tcagtaggaa atgttcactt gttac 525

<210> 645  
<211> 358  
<212> DNA  
<213> Homo sapiens

<400> 645  
gaattcggca cgaggggggtg gtggagcgct gggcgggccag gctccctggc tggccgggtt 60  
ggcggtctgg gccgtgaagg tgggacctcc tgttccgggc cgcaagtctt cctctccagc 120  
cgcccgccgt tcgtagcatg tccccagaa ctcggggagc gcaggcagga caggcttaga 180  
gaagacgcgg tccccagcgc ttggggccac gacgtccac cccgctcctc tgtcgctgga 240  
gaaccgcccg gccgagccac tgggagaagc aggccagagc cttccagggc ctccgccccg 300  
tggaccgcag gaggatgagc tggctttttc ccctgaccaa gagcgccctc tcctccgc 358

<210> 646  
<211> 420  
<212> DNA  
<213> Homo sapiens

<400> 646  
gaattcggca cgaggcgctt ctctgcacac tgtgattttg ccctcctgcc cacgcagacc 60  
tgcagcgggc aaagagctcc cgaggaagca cagcttgggt caggttcttg cctttcttaa 120  
ttttaggagc agctaccgga aggaggggaa caaggagtgc tcttcgcag cccctttccc 180  
cacgcccacc cccagctctc agggaccctt gcctgcctcc taggctggaa gccatggtcc 240  
cgaagtgtag ggcaagggtg cctcaggacc ttttggctct cagcctccct cagccccag 300  
gatctgggtt aggtggccgt cctcctgctc ctcatgggaa gatgtctcag agccttcag 360  
acctccctc cccaacccaa tgccaaagtg gacttgggag ctgcacaaag tcagcaggga 420

<210> 647  
<211> 518  
<212> DNA  
<213> Homo sapiens

<400> 647  
gaattcggca cgaggggtgc cggaggggtcg ttttaaaggg ccgcgcggtt gccgccccct 60  
cggcccgcga tgctgctatc cgtgccgctg ctgctcggcc tctcggcctt ggccgtcgcc 120  
gagcgtgccg tctacttcaa ggagcagttt ctggacggag acgggtggac ttcccgctgg 180  
atcgaatcca aacacaagtc agattttggc aaattcgctt tcagttccgg caagttctac 240  
ggtgacgagg agaaagataa aggtttgcag acaagccagg atgcacgctt ttatgctctg 300  
tcggccagtt tcgagccttt cagcaacaaa ggccagacgc tgggtggtgca gttcacgggtg 360  
aaacatgagc agaacatcga ctgtgggggc ggctatgtga agctgtttcc taatagtttg 420



gaccagacag acatgcacgg agactcagaa tacaacatca tgtttgggtcc cgacatctgt 480  
ggcctgcacc aaaaagggtc atgtcatctt caactaca 518

<210> 648  
<211> 561  
<212> DNA  
<213> Homo sapiens

<400> 648  
gaattcggca cgagggtccg cttgaccgag atgctgcggg cctgtcagtt atcgggtggg 60  
acccccgccc ccccaaagtg gctctgtggg aagtttgtcc tccgtccatt gcgaccatgc 120  
cgcaaaaact ctacttttagg cagctctggg ttgactactg gcaaaattgc tggagctggc 180  
cttttgtttg ttggtggagg tatttgtggc actatcctat atgccaaatg ggattcccat 240  
ttccgggaaa gtgtagagaa aaccatacct tactcagaca aactcttcga gatgggtctt 300  
ggtcctgcag cttataatgt tccattgcc aagaaatcga ttcagtcggg tccactaaaa 360  
atctctagt taticagaagt aatgaaagaa tctaaacagc ctgcctcaca actccaaaaa 420  
caaaagggag atactccagc ttcagcaaca gcagtgata ccctgtcggg ccagccct 480  
gcagttcagc ctgaggaatc tttaaaaact gatcacctg aaattggtga aggaaaacct 540  
acacctgcac tttcagaaga a 561

<210> 649  
<211> 428  
<212> DNA  
<213> Homo sapiens

<400> 649  
gaattcggca cgaggctgag gtggcagata gtgagcgctg gtggcggagt taaagtcaaa 60  
gcaggagagt aattatgaat agcgcgagg gattctcaca cctagaccgt cgcgagcggg 120  
ttctcaagtt aggggagagt ttcgagaaac accgcgcgtt gcgccttcca cactgtgcgc 180  
tatgacttca aacctgcttc tattgacact tcttctgaag gataccttga ggttggtgaa 240  
ggtgaacagg tgaccataac tctgccaat atagaagggt caactccacc agtaactgtt 300  
ttcaaagggt caaaaaacct tactttaaag aatgcatttt gattattaac catgatactg 360  
gagaatgtcg gctagaaaaa ctcagcagca acatcactgt aaaaaaaca agagttgaag 420  
gaagcagt 428

<210> 650  
<211> 428  
<212> DNA  
<213> Homo sapiens

<400> 650  
gaattcggca cgaggagggg gtcgggctg gccggcgact gaggggtcgg gctggctctt 60  
gagggccag gccctggccg acgcgccgc cgtgagcgag gaggcccgaa tccgggctgc 120  
tttggttggg ttgcgggccc aggcgcgcgc gccggggtcg ggaggcgtgg caggtggccc 180  
gacagccttc tttgacctct gggaaagctg acttattcct atggctttgc ttctagggct 240  
ttcttaggcc tctttgccgg ctgcctgggc agccgcgag gtgggctgga gtaactggat 300  
aaaagtatag ggtggaatcg ggcctactag gtacccctag tagtagggaa ggttggtatt 360  
agaccgagag ggaatgttta caactagcgt tacagtttaa tatttgaaaa tccaaagcgg 420  
aagactgg 428

<210> 651  
<211> 341  
<212> DNA  
<213> Homo sapiens

<400> 651  
 gaattcggca cgagggccgg gccgtgggtg acacgtaagt tgggcaggag gtggcggggc 60  
 ggcagaggca ccagccgacc cgtcagtgac accgctgtgc cgtcccaaaa accagccgag 120  
 acagctggcc cccacccttc caccattgg gcaggccgca cgggggcgcg gcccgagtc 180  
 ctggctccctt tgttggggcg gcacccctc ccttaggtgg caacaaagtc gtgcagtggg 240  
 agccgcccgc atagggcggg gagtggccag ggcgggactc caagaactgc ccgggggagc 300  
 cggggccaaa aagtgggaag aaggaaaaa ggcaggaggc a 341

<210> 652  
 <211> 669  
 <212> DNA  
 <213> Homo sapiens

<400> 652  
 gaattcggca cgagggaaaa tttgtgctct ggagagaact gttaaagctc tagaatttgt 60  
 tcaaactgaa tctcaaaaag atttggaat aaccaaaagaa aatctggctc aagcagttga 120  
 acaccgcaaa aaggcacaag cagaattagc tagcttcaaa gtcctgctag atgacactca 180  
 aagtgaagca gcaagggtcc tagcagacaa tctcaagttg aaaaaggaaac ttcagtcaaa 240  
 taaagaatca gttaaaagcc agatgaaaca aaaggatgaa gatcttgagc gaagactgga 300  
 acaggcagaa gagaagcacc tgaaagagaa gaagaatatg caagagaaac tggatgcttt 360  
 gcgcagagaa aaagtccact tggaagagac aattggagag attcaggtta ctttgaacaa 420  
 gaaagacaag gaagttcagc aacttcagga aaacttggac agtactgtga cccagcttgc 480  
 agcctttact aagagcatgt cttccctcca ggatgatcgt gacagggtga tagatgaagc 540  
 taagaaatgg gagaggaagt ttagtgatgc gattcaaagc aaagaagaag aaattagact 600  
 caaagaagat aattgcagtg gtctaaagga tcaacttaaa cagatgtcat tcatatggaa 660  
 gaattaaga 669

<210> 653  
 <211> 322  
 <212> DNA  
 <213> Homo sapiens

<400> 653  
 gaattcggca cgaggcttgc ttctgtggaa caatgccaca gtgaccacct gccactccaa 60  
 gactgcccac ctggatgagg aggtaaataa aggtgacatc ctgggtggtg caactggtca 120  
 gcctgaaatg gttaaaaggg agtggatcaa acctggggca atagtcacg actgtggaat 180  
 caattatgtc ccagatgata aaaaaccaa tgggagaaaa gttgtgggtg atgtggcata 240  
 cgacgaggcc aaagagaggg cgagcttcat cactcctgtt cctggcggcg tagggcccat 300  
 gacagttgca atgctcatgc ag 322

<210> 654  
 <211> 332  
 <212> DNA  
 <213> Homo sapiens

<400> 654  
 gaattcggca cgagggcggg aagcagctct tgtggatcct cagtggcgga ggctcgggtca 60  
 cccggatagg taaaggaaaa catgcctgcc acacggaagc caatgagata tgggcataca 120  
 gagggacaca cggaggctct ttttgatgat tctgggagtt ttattgtgac ttgtggaagt 180  
 gatgggtgatg tgaggatttg ggaagacttg gatgatgatg atcctaagtt cattaatgtt 240  
 ggagaaaagg catattcatg tgctttgaag agtggaaaac tgggtcactgc agtttctaatt 300  
 aatactattc aagtccacac atttcctgaa gg 332

<210> 655  
 <211> 573  
 <212> DNA  
 <213> Homo sapiens

<400> 655  
 gaattcggca cgaggaaata aggtgaattt gggacaaatg aaaggtgaga tgaaggcaaa 60  
 ctactgtcaa gggatgatct gagcctgaac aactcagtga atgtgaagag aaaacaagat 120  
 tacatgtgaa tatagatggt aactggaaaa gcaaggagaa aaaaaggag cacaaggaag 180  
 aaaaaaaaaat caaaatttgt gagccatctc aagccatcaa aaaaacttca ttctattgta 240  
 ggagggaagc tggaaacaat ggcagagtaa ttttgtgtta agaattaaag tactagctcc 300  
 agttaggcat ataaatgaca attagaaggg acagaagtta tggttatgtc agcagcctcc 360  
 agtgagctag gatataaact aagtcttttc aagctgaaca aatataatac cattcaacct 420  
 atttaagtga agagacacat ttaagtccac aaaagcaaac ttaactacct actatataac 480  
 ttacttttta ttgaaagtat cttgcattca tgatggatgc tttctgggtt ttaccacata 540  
 ttttaatggt aaaagttaaa ttattcttta cat 573

<210> 656  
 <211> 462  
 <212> DNA  
 <213> Homo sapiens

<400> 656  
 gaattcggca cgagggaagaa acttggagga caggtcgata ggtgcggcaa accaccatag 60  
 tacacatata cctatgtaac aaacctccac attctgcaca tgtgtcccag aacttaaagt 120  
 aaaattttaa aaaaaagaaa agaaatatcc agaaagatta tccagcctca aggtttatat 180  
 tataatggct ataaacaaca aaacataaac ctattttcca aaggtttcca aatatactac 240  
 cgaagaaaca aacataaaaa acgaacttga tattttctaaa aagcataact taaaatttaa 300  
 aaaaaaagtt aatgaaaaaa caaacactca atgggttactg cttacttta agaaaaaac 360  
 atttagttaa gcacattttc ccccaaagct atttaaacac caagattcag aagtaaacct 420  
 tatttagatg agtttctagt caacgaattg acctacataa tc 462

<210> 657  
 <211> 383  
 <212> DNA  
 <213> Homo sapiens

<400> 657  
 gaattcggca cgagggaaga gcggagagct ggagcaggag gaggagcggc tctccaagga 60  
 gtgggaggac tccaaacgct ggagcaagat ggaccagctg gccaaggagc tgacggctga 120  
 gaagcggctg gaggggcagg aggaggagga ggacaaccgg gacagttcca tgaagctctc 180  
 cttccgggcc cgggcctacg gcttcagggg ccctgggccg cagctgcgac gaggctggag 240  
 gccatcctcc cgggaggaca agccttgagg cgggcctgcc ctccaggtcc gaggctacct 300  
 cgaggagaag aaagaggagg agggcagcgc aaaccgcaga ccagaggacc aggagctgga 360  
 gagcctgtcg gccattgagg cag 383

<210> 658  
 <211> 540  
 <212> DNA  
 <213> Homo sapiens

<400> 658  
 gaattcggca cgagggtttcg agtcagtgtc gccgccgctg ccgcgggctt tgcagagcag 60  
 gatgaatgtg atagaccacg tgcgggacat ggcggccgcg gggctgcact ccaacgtgcg 120

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gctcctcagc agcttgttac ttacaatgag taataacaac octgagttat tctccccacc 180
tcagaagtac cagcttttgg tgtatcatgc agattctctc tttcatgata aggaatatcg 240
gaatgctgtg agtaagtata ccatggcttt acagcagaag aaagcgctaa gtaaaacttc 300
aaaagtgaga ccttcaactg gaaattctgc atctactcca caaagtcagt gtcttccatc 360
tgaaattgaa gtgaaatata aaatggctga atgttatata atgctaaaac aagataaaga 420
tgccattgct atacttgatg ggatcccttc aagacaaaga actcccaaaa taaacatgat 480
gctggcaaac ctgtcaagaa ggctggtcag gagcgccctt cagtcaccag ctataaggag 540

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<210> 659

<211> 366

<212> DNA

<213> Homo sapiens

<400> 659

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gaattcggca cgaggcttca aactcacacc tcccgggagg agctgtcctg ggcgcgggtc 60
ccgcggggaa aatggtggag ccagggcaag atttactgct tgctgctttg agtgagagtg 120
gaattagtcg gaatgacctc tttgatattg atggtggaga tgcagggctt gcaactccaa 180
tgctaccccc gtcagttcag cagcagcagc ctccatctac tacaacattt gtgctgaatc 240
aaataaatca tcttccaccc ttgggatcta caattgtaat gactaaaaca ccacctgtaa 300
caaccaacag gcaaaaccat cactttaact aagtttatcc agactactgc aagccacgcc 360
ccgtca 366

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<210> 660

<211> 514

<212> DNA

<213> Homo sapiens

<400> 660

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gaattcggca cgaggaggaa gaaaagcact agcaacttca aagccgacgg cctgtccggc 60
actgctgaag aacaagaaga aaattttgag tttatcattg tgcctctcac tggccaaaca 120
tggcactttt gaagccacga cgtatgagga gcgggacgct ggggtccaagc catcgagagc 180
cagatccttg ccagcctgca gtcgtgagga agcagcaaga acaagtcccg gctgacgagc 240
cagagcgagg ccatggccct gcagtcgacg cggaacatgc gcgggaactc ccaactgtgtg 300
gactgcgaga cccagaatcc caactgggccc agtttgaact tgggagccct catgtgcatc 360
gaatgctcag ggatccaccg gaatcttgcc acccaccttt cccgagtcgg atctctggac 420
ctggatgact ggccaatcga gtcctatcaag gtgatgtcat ccacgaggaa cgagctagcc 480
aacagcgtct gggaaagagag cagccagggg cgga 514

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<210> 661

<211> 515

<212> DNA

<213> Homo sapiens

<400> 661

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gaattcggca cgaggcggag tcaaggtgga cgcgagagac cacagtggag ccacagcccg 60
gatgctggcc aagcagtacg gacacatgaa gatcgtggcc ttgatggaca cttactcgcc 120
ctctctgccc aagagcctct atcggagccc agaaaagtac gaagatctga gctcttctga 180
cgagtctgct cctgtctctc agagacagag gccttgccgg aagaagggtg tcagcatcca 240
cgagggaccg cgagccctgg ccaggatcac aggcattggc ctgggcggca gagccccacg 300
gcctcgctat gagcaggctc ctccccgtgg ctatgtcacc ttcaacagca gtggcgagaa 360
ccccctgtaa gaagagggcc totgtgccg ggatgtcacc tcccccatca atgagcggga 420
cgtggagagc agcagcagca gcagcagtcg ggaggaaacat gctttctgtg ccaacctggg 480
gcccgtccag agcagcagca gcagcagggg cctgg 515

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<210> 662  
 <211> 570  
 <212> DNA  
 <213> Homo sapiens

<400> 662  
 gaattcggca cgaggcggct gcggcgcgcc gggcggaact ttccagaacg actactgagt 60  
 gagaggtcgg aggagcggta actaccccg ctgcgcacag ctcggcgctc ctccccgctc 120  
 cctcacacac cggcctcagc ccgcaccggc agtagaagat ggtgaaagaa acaacttact 180  
 acgatgtttt ggggggtcaaa cccaatgcta ctcaggaaga attgaaaaag gcttatagga 240  
 aactggcctt gaagtacat cctgataaga acccaaatga aggagagaag tttaaacaga 300  
 tttctcaagc ttacgaagtt ctctctgatg caaagaaaag ggaattatat gacaaaggag 360  
 gagaacaggc aattaaagag ggtggagcag gtggcggttt tggctcccc atggacatct 420  
 ttgatattgt ttttggagga ggaggaagga tgcagagaga aaggagaggt aaaaatgttg 480  
 tacatcagct ctcatgaacc ctagaagact tatataatgg tgcaacaaag aaaactggct 540  
 ctgcaaaaaga atgtgatttg tgacaaatgt 570

<210> 663  
 <211> 307  
 <212> DNA  
 <213> Homo sapiens

<400> 663  
 gaattcggca cgagggcgcg gaggggctgg ctgggcagga ggggttggcg gggcagcagg 60  
 gccgcggcca tggggagctt gaaggaggag ctgctcaaag ccatctggca cgccttcacc 120  
 gcaactgacc aggaccacag cggcaaggct tccaagtccc agctcaaggt cctttcccat 180  
 aacctgtgca cgggtgctgaa ggttcctcat gaccagttg cccttgaaga gcacttcagg 240  
 gatgatgatg aggggtccagt gtccaaccag ggctacatgc cttattttaa caggttcatt 300  
 ttggaata 307

<210> 664  
 <211> 496  
 <212> DNA  
 <213> Homo sapiens

<400> 664  
 gaattcggca cgagggcggg ccgaggagat tggcgacggt gtcgcccgtg ttttcgttgg 60  
 cgggtgcctg ggctggtggg aacagccgcc cgaaggaagc accatgattt cggccgcgca 120  
 gttgttggat gagttaatgg gccgggaccg aaacctagcc ccggacgaga agcgcagcaa 180  
 cgtgcggtgg gaccacgaga gcgtttgtaa atattatctc tgttggtttt gtccctgcgga 240  
 attgttcaca aatacacggt ctgatcttgg tccgtgtgaa aaaattcatg atgaaaatct 300  
 acgaaaacag tatgagaaga gctctcgttt catgaaagtt ggctatgaga gagatttttt 360  
 gcgatactta cagagcttac ttgcagaagt agaacgtagg atcagacgag gccatgctcg 420  
 tttggcatta tctcaaaacc agcagttctt tggggccgct ggcccaacag gcaaaaaaaaa 480  
 aaaaaaaaaa ctcgag 496

<210> 665  
 <211> 517  
 <212> DNA  
 <213> Homo sapiens

<400> 665  
 gaattcggca cgaggggact cgcgagagag gactcacgga cctccaggac ctattaactt 60  
 gacagacccg cccctctatt cgagccagcc caactcggag aactcagagt catcctcgag 120

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agtaaagaaa gctcttagag tttttttttt tttgacaaat ctatcttaaa tgtcagtcca 180
atatccacgg cgacgagcca cagcaggtga gaaacctgga aatgagcctg aagaggtgaa 240
gctgcagaat gccagcaaac agattgtgca gaatgcaatc ctgcaagctg tgcagcaagt 300
ctcccaggag agtcagcgca gagaagagag aatcagtgac aaccgggacc acatccaact 360
gggcgttggg gagttaacca agaagcacga aaagaagtaa catggtggat ttggctcttg 420
acatgtgctt gggtttctagc cttctcttta gtataggacg catctcccaa atgttgccag 480
taaagcaaac ccgaagtggc acccgccctt aacttgt 517

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<210> 666
<211> 616
<212> DNA
<213> Homo sapiens

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<400> 666
gaattcggca cgagggggccg ctcttgtcct tcctcccgtt tttctttctc tctccttgcg 60
gtctgaagat gccctcggcc accagccaca gctggagcgg cagcaagtcg tccggaccgc 120
caccgccgtc gggttcctcc gggagtggag cggccgcggg agccggggcc gccgcgccg 180
cttctcagca ccccgcaacc ggcaccggcg ctgtccagac cgaggccatg aagcagattc 240
tcgggggtgat cgacaagaaa cttcggaacc tggagaagaa aaagggtgaa cttgatgatt 300
accagaacg aatgaacaaa ggggaaaggc ttaatcaaga tcagctggat gccgtttcta 360
agtaccagga agtcacaaat aatttgaggt ttgcaaaaga attacagagg agtttcatgg 420
cactaagtca agatattcag aaaacaataa agaagacagc acgtcgggag cagcttatga 480
gagaagaagc tgaacagaaa cgttttaaaa ctgtacttga gctacagtat gttttggaca 540
aattgggaga tgatgaaagt gcggacttga cctgaaacaa ggggtgaatg ggagtggcaa 600
tattgtccga agagga 616

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<210> 667
<211> 596
<212> DNA
<213> Homo sapiens

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<400> 667
gaattcggca cgaggggaaaa ttagtgctct ggagagaact gttaaagctc tagaatttgt 60
tcaaactgaa tctcaaaaag atttggaat aaccaaagaa aatctggctc aagcagttga 120
acaccgcaaa aaggcacaag cagaattagc tagcttcaaa gtctgtctag atgacactca 180
aagtgaagca gcaagggtcc tagcagacaa tctcaagttg aaaaaggaac ttcagtcaaa 240
taaagaatca gttaaaagcc agatgaaaca aaaggatgaa gatcttgagc gaagactgga 300
acaggcagaa gagaagcacc tgaagagaaa gaagaatatg caagagaaac tggatgcttt 360
gctcagagaa aaagtccact tgaagagagc aattggagag attcaggtta ctttgaacaa 420
gaaagacaag gaagttcagc aacttcagga aaacttggac agtactgtga cccagcttgc 480
agcctttact aagagcatgt cttccctcca ggatgatcgt gacaggggtg tagatgaagc 540
taagaaatgg gagaggaagt ttagtgatgc gattcaaagc aaagaagaag aaatta 596

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<210> 668
<211> 297
<212> DNA
<213> Homo sapiens

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<400> 668
gaattcggca cgaggggaaa caccatggct gcggcggccc agctctctct gacacagtta 60
tcaagtggga atcctgtata tgaaaaatac tatagacagg ttgatacagg caatactgga 120
agggtgttgg cttctgatgc tgctgctttc ctgaaaaaat cagggttcc agacttgata 180
cttggaagaa tttgggattt agccgacaca gatggcagaag gtatcctgaa caacaagaa 240
ttctttgttg ctttgcgtct tgtggcatgt gcccagaatg gattggaagt ttcacta 297

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<210> 669  
 <211> 458  
 <212> DNA  
 <213> Homo sapiens

<400> 669  
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 ctogtccgat gctcaggaga gcttggaagt cgccatccag tgcttgaga ctgcgttttg 180  
 ggtgacggta gaagacagt accttgcgct ccctcagact ctgccggaga tatttgaagc 240  
 ggctgccacg ggcaaggaga tgccgcagga cctgaggagc cccgcgcgaa cccgccttc 300  
 cgaggaggac tcagcagagg cagagcgctt caaaaccgaa ggaaacgagc agatgaaagt 360  
 ggaaaacttt gaagctgccc tgcatttcta cggaaaagcc atcgagctca acccagccaa 420  
 cgccgtctat ttctgcaaca gagccgcagc ctacagca 458

<210> 670  
 <211> 634  
 <212> DNA  
 <213> Homo sapiens

<400> 670  
 gaattcggca cgaggtcag ctgacaagga ctggggacgg cgggtgcctt gtcttgccctt 60  
 tgtcgccccc gccctctct tccctggctg gacttgcgga gtccccgccg aagaacccga 120  
 ggagccatat attgaagacc atgtctggaa gcttctactt tgtaattgtt ggtcaccatg 180  
 ataatccagt ttttgaaatg gagtttttgc cagctgggaa ggcagaatcc aaagacgacc 240  
 atcgatcatc gaaccagttc atagctcatg ctgctctcga cctcgtagat gagaacatgt 300  
 ggctgtcgaa caacatgtac ttgaaaactg tggacaagtt caacgagtgg tttgtgtcaa 360  
 catttgtcac cgcggggcat atgaggggta ttatgcttca tgacataaga caagaagatg 420  
 gaataaagaa cttctttact gatgggttat atttatatat aaaattttca atgaatccat 480  
 tttatgaacc caattcttct attcgatcaa gtgcatttga cagaaaagtt caatttcttg 540  
 ggaagaaacc cttttaaaagc tgaatggaga aaattccaaa taaattatat caccaccatg 600  
 gtgtatactc aaaaaaaaaa aaaaaaaact cgag 634

<210> 671  
 <211> 517  
 <212> DNA  
 <213> Homo sapiens

<400> 671  
 gaattcggca cgaggcaaag gcgtatctca gatgoccttg agatatggaa tgaaccacaa 60  
 tcagacccct gccagctgt acacactgca gcccaagctt cccatcacag ttctaaatgg 120  
 agcccctgga tttataaaact tgtgcgatgc tttgaacgcc tggcagctgg tgaaggaaact 180  
 caaggaggct ttaggtattc cagccgctgc ctctttcaaa catgtcagcc cagcaggtgc 240  
 tgctgttggg attccactca gtgaagatga ggccaaagtc tgcatgggtt atgatctcta 300  
 taaaaccctc acaccatct cagcggcata tgcaagagca agaggggctg ataggatgtc 360  
 ttcatattgg gattttgttg cattgtccga tgtttgtgat gtaccaactg caaaaattat 420  
 ttccagagaa gtatctgat gtataattgc cccaggatat gaagaagaag ccttgacaat 480  
 actttccaaa aagaaaaatg gaaactattg tgtcctt 517

<210> 672  
 <211> 516  
 <212> DNA  
 <213> Homo sapiens

<400> 672  
aattcggcac gaggggtttaa acagatttct caagcttacg aagttctctc tgatgcaaag 60  
aaaagggaaat tatatgacaa aggaggagaa caggcaatta aagaggggtgg agcaggtggc 120  
ggttttggct ccccatgga catctttgat atgttttttg gaggaggagg aaggatgcag 180  
agagaaagga gaggtaaaaa tgtgtacat cagctctcag taacctaga agacttatat 240  
aatggtgcaa caagaaaact ggctctgcaa aagaatgtga tttgtgacaa atgtgaaggt 300  
agaggaggta agaaaggagc agtagagtgc tgtcccaatt gccgaggtag tggaatgcaa 360  
ataagaattc atcagatagg acctggaatg gttcagcaaa ttcagtctgt gtgcatggag 420  
tgccagggcc atggggagcg gatcagtcct aaagatagat gtaaaagctg caacggaagg 480  
aagatagttc gagagaagaa aattttaaaa gttcat 516

<210> 673  
<211> 516  
<212> DNA  
<213> Homo sapiens

<400> 673  
aattcggcac gaggaacgag actgtgtctc aaaaaaatcc agaagcttta tcccagggtct 60  
actggacttc ctagaacacc aagaaaggaa agggaattcg cctgtcatga tttagaatca 120  
tgggggaata ttgtactacc caaataatga gtgacaaaaa ggtacctcct tgtttttaag 180  
ccacaaattg aagcagttag caaggaggtc tattttgggtg agaaagttgg tgggttccat 240  
tttcaacatg tgattcaaat tacttaatac aggctgggac agggagaatg tgagcagctg 300  
atattccagc tgagattagg ggtccatttg tagagatggt tccagaagac caaaactatg 360  
gaaagaatga cagggtcaaa gtggaggagc tgccggggac atccagcagt cagagaatgt 420  
ctgaattgaa aacatggcca agcgcagtag ctcacacctg taatccccac actttgggag 480  
accaaagcag aaggatccct tgaggccagg agttca 516

<210> 674  
<211> 516  
<212> DNA  
<213> Homo sapiens

<400> 674  
gaattcggca cgaggcttga gtgacgatgt ccctatcagg gactatcgca tcgatgagaa 60  
gaactttgtg gtcgtcatgg tgaccaagac caaagccggc cagggtacct cagcaccctc 120  
agaggcctca cccacagctg cccagagtc ctctacatcc ttcccgctg cccacctca 180  
ggcatgtccc atccccacc tgccgccaga gaggacaaga gcccatcaga ggaatccgcc 240  
cccacgacgt cccagagtc tgtgtcaggc tctgttccct cttcaggtag cagcgggcga 300  
gaggaagacg cggcctccac gctagtgcag ggctctgagt atgagacgat gctgacggag 360  
atcatgtcca tgggctatga gcgagagcgg gtcgtggccg cctgagagcc agctacaaca 420  
acccccaccg agccgtggag tatctgtcga cgggaattcc tgggagcccc gagccggaac 480  
acggttctgt ccaggagagc caggatcagg agcagc 516

<210> 675  
<211> 406  
<212> DNA  
<213> Homo sapiens

<400> 675  
cctcgtgccg aattcggcac gaggatcagt ttaaaacagt gcctgggctc ccagccctcc 60  
actcacttcc ctgttctctg catgggtgat actgagaggt tgggaggcat aggaaggggg 120  
aagatccatg ggagtatatg tgagcattga ctatatgcag agggtttttag tgggtctcgt 180  
tagaaatgtt tggaggcgga tagaaaatat ttttagaaga gcacccctcc aatgttctct 240



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ccttttttttc tggatggaag atgtttttgt gccagaaatc agattgatac ccaaagttag 300
atttcaggtt tactccacag gtcccctaatt ttttaagggt catcactctt gttctttttc 360
taatcagtta gtagtgctat tcctgatcac tgggaagtgc tgttgt 406

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<210> 676
<211> 529
<212> DNA
<213> Homo sapiens

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<400> 676
gaattcggca cgagggacat ttcctggcat tgaagaaaaa tttaggcctt tttatttaag 60
tcaattagaa gaaagtgtag aagaggacgt gaagagtta aagaaagagt attcaaacga 120
aaaatgcagt tgtgaagaga atgcagtctc ttcacttgat tgtgtggcag taccttcaag 180
ccgggtcaaat tcagccacag aacagcctgg ttcacttgca cagttcccag ggacttggga 240
tgggtcctgt ggaggagtcc tggtttgctc ctccctgga gcaccacaa gaagagaatg 300
agcccagcct gcagagtaaa ctccaagacg aagccactac catctttatg gcagccgcat 360
ggacaggcag acgaaacagc agcccagaca gaatgtggct tacaacagag aggaggaaag 420
gagacgcagg gtctcccatg acccttttgc acagcaaaga ccttacgaag aattttcaga 480
atacagaggg aaaaggcctg gttattccag tgcagccagt catggtaat 529

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<210> 677
<211> 528
<212> DNA
<213> Homo sapiens

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<400> 677
tggatccaaa gaattcggca cgaggcctct atctcctaga tgacaggatc tatgcaacta 60
acccagagat gacacagaga tgaatgagat gtggctcctg tcatcaagga gctcatgatt 120
caatggggaa ctaaacactta gatgcatggg cagttaggga catgcaagaa tctttgtaat 180
gcaacaagag agaagttaca aggcagcacg gaagtcaatg ccgggtgaacc cagatggcct 240
ggtgagagga gcctggacta gaaggaatta ctctcacttc caccaccga tgtatggaaa 300
ctgctatact ttcaatgaca agaacaactc caacctctgg atgtcttcca tgcctggaaat 360
caacaacggg ctgtccctga tgctgcgcgc aaagcagaat gacttcattc ccctgctgtc 420
cacagtgact ggggcccggg taatgggtgca cgggcaggat gaacctgcct ttatggatga 480
tgggtggcttt aacttgcggc ctggcgtgga gacctccatc agcatgag 528

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<210> 678
<211> 528
<212> DNA
<213> Homo sapiens

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<400> 678
gtggatccaa agaattcggc acgaggctgg acaggcgggt gtgaggagtt gcagacccaa 60
acccacgtgc attttgggac aattgctttt taaaacgttt ttatgccaaa aatccttcat 120
tgtgattttc agaaccacgt cagatatacc aagtgactgt gtgtgggggt tgacaactgt 180
ggaaaggcga gcagaaaact ccggcggctc gaggccatgg aggtggttgc tgcatttgag 240
aggagtagg gggctagatg tggctcctag tgcaaaccgg aaacctggc accttccaga 300
gccgtggtct caaggagtca gagcagggtt ggccctcagt agctgcagg agctttgatg 360
caacttattt gtaagaagga tttttaaatt ttttatgggt agaattgtag tcaggaaaac 420
agaaagggct tgaaatttaa taagtgtctg tggaaagggg ttttccaagc ctggaagggt 480
attcagcagc tgtgtgtggg aaacatttct cctgaaagac tgaacgtg 528

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<210> 679
<211> 309

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<212> DNA  
<213> Homo sapiens

<400> 679  
gaattcggca cgagggcaag atgggtcacc agcagctgta ctggagccac ccgcgaaaat 60  
tcggccaggg ttctcgctct tgtcgtgtct gttcaaaccg gcacggctctg atccggaaaat 120  
atggcctcaa tatgtgccgc cagtgtttcc gtcagtagc gaaggatata ggtttcatta 180  
agttggacta aatgctcttc cttcagagga ttatccgggg catctactca atgaaaaacc 240  
atgataattc tttgtatata aaataaacat ttgaaaaaac cttcaaaaaa aaaaaaaaaa 300  
aaactcgag 309

<210> 680  
<211> 366  
<212> DNA  
<213> Homo sapiens

<400> 680  
gaattcggca cgagggcggg cgttatccat ttgtgttggt cgccagctag gcctggcctc 60  
gtcccgcttc gtcgggtcgg tctcgcgcgc ccccatagcc ttgctagagg gttagcgtaa 120  
gccttaaagt gtgcgaatcc cgaagggaagc aagcgacaga actcgaagaa ccaccgcttc 180  
ctttccttcg gggaaaggaa ggcgggcacc ctgcgctttt gaaaggcccc gcccttgccg 240  
ttttggaagg ccccgccctt gcgctttgcg ggccccgcct tgcgctttga aggccttgctc 300  
ttgccgtttt gaaaatctca tttggggccg tggattgaag gaattttggg ggaaggtttt 360  
tggggc 366

<210> 681  
<211> 495  
<212> DNA  
<213> Homo sapiens

<400> 681  
gaattcggca cgagggcgcg agccggccgg gagaggctcg gacccccagg acctccagcc 60  
tttagaccct ccggccctag gacccccgga acctgggacc cccgagacc cagcactcgc 120  
ggcgggggga tggatcatgg gacttctggg gcttgaagac cctgggtctg cgggaagccc 180  
ctgctgagcg tccctcgcct acccctgagg cagtggcttt tcagtgcaga aaccacctta 240  
tctatgtgac aaagctcggg ccatcagtgg caaggtagat tggcatcacg tacctttgat 300  
acaacaacct gagaaggacg tcaactctgc gatattcctg ccaaaaatgc atctccgcac 360  
tccgatcgtg agaacatcct gggcacaccc aaactgagag acaccataca aagtgactgg 420  
tcagtgcact caaaggcaaa aagctcatgg aaggcaacag aagacaggag aagtgcacgc 480  
taaaagcagc gtgga 495

<210> 682  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 682  
gaattcggca cgaggggtgaa acagccgttt gagtttggtc gcgggtggag aacgtttgct 60  
aggggccccg ccaagaagga ggcccgccctg ttacgatggg gtccatgagt ttcaagcgga 120  
accgcagtga ccggttctac agcaccgggt gctgcggctg ttgccatgtc cgcaccggga 180  
cgatcatcct ggggacctgg tacatggttag taaacctatt gatggcaatt ttgctgactg 240  
tggaagtgac tcatccaaac tccatgccag ctgtcaacat tcagtatgaa gtcacggta 300  
attactattc gtctgagaga atggctgata atgcctgtgt tctttttgcc gctctgttct 360  
tatgtttata atcagttcaa tgctgggtta tggagcaatt tcttatcaag tgggttggtc 420

gattccattc ttctgttacc gactttttga cttcgtcctc agttgcctgg ttgctattag 480  
 ttctctcacc tatttgccaa gaatcaaaga atatctggat caactacct 529

<210> 683  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<400> 683  
 gaattcggca cgagggaaca ccatgccttc aattaagttg cagagttctg atggagagat 60  
 atttgaagtt gatgtggaag ttgccaaaca atctgtgact attaagacca tgttggaaga 120  
 tttgggaatg gatgatgaag gagatgatga cccagttcct ctaccaaag tgaatgcagc 180  
 aatattaaaa aaggtcattc agtgggtgcac ccaccacaag gatgaccctc ctctcctga 240  
 agatgatgag aacaaagaaa agcgaacaga tgatatccct gtttgggacc aagaattcct 300  
 gaagttgccca aggaacactt ttttgactca ttctggctgc aaactactta gacatcaaag 360  
 gtttgcttga tgtacatgca agactgttgc caatatgac aaggggaaaa ctcttgagga 420  
 gattcgcaag accttcaata tcaaaaatga ctttctgaag aggaggaacc cagtcgcaaa 480  
 gagaccagtg ggtgaagaga agtgaatgtt gtgctgcact gtacctg 527

<210> 684  
 <211> 441  
 <212> DNA  
 <213> Homo sapiens

<400> 684  
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 agtaaggaa agcaaagtgg gagggctaca ccatcaccat ggcaacagaa agcctcaaaa 120  
 acataaagtc cctcgactta tgtcgggtag actcttctta gctcaggaga aacacatttt 180  
 aactggctga ggacaaggcc aggcagcctg gccacactgc ggaagggcag ctggacgcgc 240  
 ggctctggt cagtcctgga agtgccttggg gagggcttcc agcagctcct gcttcttcag 300  
 cccactcttc agcccgtaa cccggcaggc ctctttcagc atgggcacag tgaacttgcc 360  
 cagcgtaccc ttgctgatgt ggtcttccag ctctcttctt gaatactcca ccttgggcct 420  
 tttgcttcca gaaccttcat t 441

<210> 685  
 <211> 490  
 <212> DNA  
 <213> Homo sapiens

<400> 685  
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 atggctatgc agcggccagg tccctatggt ggagggtatg gaggtatga tgactatggt 120  
 ggctataatg atggatatg ctttgggtct gatagatttg gaagagacct caattactgt 180  
 ttttcaggaa tgtctgatca tagatacggg gatggtgggt ccagtttcca gagcaccaca 240  
 gggcactgtg tacacatgag ggggttacct tacagagcca ctgagaatga tatttataat 300  
 ttcttctcac ctcttaatcc catgagagta catattgaaa ttggaccgca tggcagagt 360  
 accggtgagg cagatgttga atttgctact catgaagatg ctgtggcagc tatggcaaaa 420  
 gacaaagcta atatgcacac agatatgtgg agctcttctt aaattctctg caggaacaag 480  
 tgggggtgct 490

<210> 686  
 <211> 618  
 <212> DNA  
 <213> Homo sapiens

<400> 686  
gaattcggca cgaggctttt ttattctgtg aatgtttttg tttttattat gaaatatatt 60  
aaaattgaaa agtacagaga ataatcgggtg tctactgtaa caccaccaga ttttaacaatg 120  
ttaatgttac gccatatttg tttcaaatat ttttgtaata ttgaacatta tggatagagt 180  
taaagcttgt ttgtatccat cccgttggtt acattctcca tcccctacat aggtaaccac 240  
tattctgaag ttgatgtgta ttctttgtgt acatgctttt ataccttttc tgcataatgta 300  
tgtatccata aataatatgt agtctgttgt gtgtttttta actttacaca gtggatgtcg 360  
tactcttaca tgtattctgc agcttgcatt ttccacacat tcattttgaa tattcgttca 420  
tgtaacaat gtagatctag ttttcttttt aaactctgta tagtattctt atgtatgaca 480  
tacacttggt gttatacatt tgaattattt ccagggtattc ttttttgtgt gtggatgta 540  
aagtcacgat ggcagagatt tttgaaggaa gataaattat tttaggatta catttacagc 600  
gcaggccac ttcaaggt 618

<210> 687  
<211> 410  
<212> DNA  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> 396  
<223> n = A,T,C or G

<400> 687  
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aagggtgaagg gtgtccgtgg gcagtgcatc cgcaggagac atgaaacagc agccacggaa 120  
atagggggta aaatatattg agtacctttt aatgcactgc cccattctgc tgtaccagaa 180  
tatggacaca ttccaagctt tcttgatgat gcttgcacat ctttagaaga ccatattcat 240  
accgaagggc tttttcggaa atcaggatct gtgattcggc taaaacacta aagaataaag 300  
tggtatcatg ggaagggtgc ctatctctgc acctccttgg gatattgcgg gacttcttaa 360  
gcagtttttt agggactgcc agagcccatt ctccnctga tttgcatgaa 410

<210> 688  
<211> 412  
<212> DNA  
<213> Homo sapiens

<400> 688  
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gggcccaggc cgcggagctc gcggaggcaa ggccgaggat aaggagtga tgcccgtcac 180  
caagttgggc cgcttggtca aggacatgaa gatcaagtc ctggaggaga tctatctctt 240  
ctccctgccc attaaggaat cagagatcat tgatttcttc ctgggggcct ctctcaagga 300  
tgaggttttg aagattatgc cagtgcagaa gcagaccgt gccggccagc gcaccagggt 360  
caaggcattt gttgctatcg gggactacaa tggccacgtc ggtctgggtg tt 412

<210> 689  
<211> 412  
<212> DNA  
<213> Homo sapiens

<400> 689

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gccttgctaa cgctgccgtc ggggaggatt gatgtccctt cagcatcatg cagcccgccg 60
ccgaggaagg tgaaagttac acaagaactg aaaaacattc aagttgagca gatgacaaaa 120
cttcaagcca aacatcaagc agaatgtgat ttgcttgaag atatgaggac attcagtcag 180
aagaaggctg ctattgaaag agagtatgca cagggtatgc agaagttggc tagtcaatac 240
ctgaagagag attggcctgg agtaaaagct gatgatcgga atgattacag gagcatgtat 300
cccgtttgga aatcttttct cgagggaaca atgcaggtag cccagtctcg gatgaatata 360
tgtgaaaact ataaaaactt catttctgac ctgcaaggac agtgagaagc tt 412

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<210> 690

<211> 412

<212> DNA

<213> Homo sapiens

<400> 690

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gggcggcccc gcgcggggct ctcatagtgc tggagggcgt ggaccgcgcc gggaagagca 60
cgcagagccg caagctggtg gaagcgctgt gcgcgcgcgg ccaccgcgcc gaactgctcc 120
ggttcccggg aagatcaact gaaatcggca aacttctgag ttctactttg caaaagaaaa 180
gtgacgtgga ggatcactcg gtgcacctgc ttttttctgc aaatcgctgg gaacaagtgc 240
cgtaatttaa ggaaaagttg agccaggcg tgaccctcgt cgtggacaga tacgcatttt 300
ctgggtgtgg cttcaccggg gccaaaggaga atttttccct agactgggtg aaacagccag 360
acgtgggcct tcccaaaccg gacctggtcc tgttctctca gttacagctg gc 412

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<210> 691

<211> 412

<212> DNA

<213> Homo sapiens

<400> 691

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ggttttcatc cttgaaaaac agtaagaaat atgctcccac cgaggcacag ttgaatgctg 60
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aagacttggt tccaaccacc aaaatcccaa atcctcgatt tcagagatta ttccagtgtc 180
tgctgcacag agctttacat ccccgggagc ctctaccccc aattcagcag catatttgga 240
atatgctgaa tcctcccgtt gaggtgacaa cgaaaagtca gattcctctc tctaaaaata 300
agaccctttt tcctctgatt gaagccaaga aaaaggatca agtgactgct caggaaattt 360
tccaagacaa ccatgaagat ggacctacag ctaaaaaatt aaaaactgag ca 412

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<210> 692

<211> 412

<212> DNA

<213> Homo sapiens

<400> 692

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gcttgtttgt ggatcgctgt gatcgctcact tgacaatgca gatcttcgtg aagactctga 60
ctggtaagac catcaccctc gaggttgagc ccagtgcacac catcgagaat gtcaaggcaa 120
agatccaaga taaggaaggc atccctcctg accagcagag gctgatcttt gctggaaaac 180
agctggaaga tggcgccacc ctgtctgact acaacatcca gaaagagtcc accctgcacc 240
tggtgctccg tctcagaggt gggatgcaaa tcttcgtgaa gacactcact ggcaagacca 300
tcacccttga ggtggagccc agtgacacca tcgagaacgt caaagcaaag atccaggaca 360
aggaaggcat tcctcctgac cagcagaggt tgatctttgc cggaagcag ct 412

```

<210> 693

<211> 413

<212> DNA

<213> Homo sapiens

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<400> 693
ggatgaatggt agtgttgcca cctgtgtgtg aggcctgagg cctcttctct agctttatct 60
ccctttcctt cactcaaggg ccatttcccc agtccctatc tccccatcc cctcccggct 120
tataggcccc acaggtgcta tttgtgtgtc tggcccaggc gtggggctac caagcaaagg 180
cttgccatat accaaaggcc aagctgcatg cccattaatc tgggcttttt tcttttgctg 240
gtcaatgtgg gttttaatgc tgaatcaaat gttaactttt tccaagactt gggggaatct 300
gaagtcca tctacacttc taccactttt tctgcccac cctaaacctt cgtttaagta 360
attggaaggg actggttccc ttccttttgt tggaaggga ccaggaagga aag 413

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```

<210> 694
<211> 441
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 100,138,202,203,211,237,287
<223> n = A,T,C or G

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<400> 694
actagtggat ccaaagagag agagagagag agagagagag agagagagag agagagagag 60
agagagagag agagaggcgc ccgaggcgcg gaggggctgn ctgggcagga ggggttggcg 120
gggcagcagg gccgcggnca tggggagctt gaaggaggag ctgctcaaag ccatctggca 180
cgccttcacc gcactcgacc annaccacag nggcgaggtc tccaagtccc agctcanggt 240
cctttcccat aacctgtgca cgggtgctgaa gggttcctctg gaccanttg cccttgaaga 300
gcacttcagg gatgatgatg aggggtccagt gtccaaccag ggctacatgc cttattttaa 360
caggttcatt ttggaaaagg tccaagacaa ctttgacaag attgaattca ataggatgtg 420
ttgggaccct ctgtgtcaaa a 441

```

```

<210> 695
<211> 413
<212> DNA
<213> Homo sapiens

```

```

<400> 695
gctcgtctcc cgcggcccag cgtcgcacc accgcttctc cctccctgtc gcagccgcgc 60
cgccgcgcag cgccccagcc acacgcgcgc gggcagaagc cgcccgctct ccggaagtgt 120
ataacagaat tcattgaagt ggagaatttt taaagaaggt aacaaaaaga gaaagaaaat 180
gccgaaacca atcaacgtaa gagtaactac aatggatgct gagctggaat ttgccattca 240
gcccataca actggcaaac aactttttga ccaggtgggtg aaaacagttg gtttgctgta 300
ggctctggtt tttgggctgc agtatgtaga cagcaaaggt tattctacat ggcttaaact 360
aaataaaaag gtaacacagc aggatgttaa aaaagagaat cctttacagt tca 413

```

```

<210> 696
<211> 399
<212> DNA
<213> Homo sapiens

```

```

<400> 696
ggcttgatgg tgcaggccat ctctggggcc gcctggcggc catcgtgggt aaacaggtac 60
tgctgggccc gaaggtgggt gtcgtacgct gtgaaggcat caacatttct ggcaatttct 120
acagaaacaa gttgaagtac ctggctttcc tccgcaagcg gatgaacacc aacccttccc 180
gaggccccta ccacttcggt gccccagcc gcattctctg gcggaccgtg cgaggtatgc 240

```

```

tgccccacaa aaccaagcga gccagggccg ctctggaccg tctcaaggtg tttgacggca 300
tcccaccgcc ctacgacaag aaaaagcgga tgggtggttcc tgctgcccctc aaggctcgtgc 360
gtctgaagcc tacaagaaag tttgcctatc tggggcgcc 399

```

```

<210> 697
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<400> 697
gcagtagctg ggtgggcacc atggctggga tcaccacccat cgaggcggtg aagcgcaaga 60
tccaggttct gcagcagcag gcagatgatg cagaggagcg agctgagcgc ctccagcgag 120
aagttgaggg agaaaggcgg gcccggaac aggtgaggc tgaggtggcc tcttgaacc 180
gtaggatcca gctggttgaa gaagagctgg accgtgctca ggagcgccctg gccactgccc 240
tgcaaaagct ggaagaagct gaaaaagctg ctgatgagag tgagagaggt atgaaggta 300
ttgaaaaccg ggccttaaaa gatgaagaaa agatggaact ccaggaaaac caactcaaag 360
aagctaagca cattgcagaa gaggcagata ggaagtat 398

```

```

<210> 698
<211> 396
<212> DNA
<213> Homo sapiens

```

```

<400> 698
gaactcaaaa gtggaaaata tgtacaatct gtaatgagct ttttctgaa aatgtctata 60
gtgtgcactt cgaaaaagaa cataaagctg agaaagtccc agcagtagcc aactacatta 120
tgaaaataca caattttact agcaaagctc tctactgtaa tcgctattta cccacagata 180
ctctgctcaa ccatatgtta attcatggtc tgtcttgtcc atattgccgt tcaactttca 240
atgatgtgga aaagatggcc gcacacatgc ggatggttca cattgatgaa gagatgggac 300
ctaaaacaga ttctactttg agttttgatt tgacattgca gcagggtagt cacactaaca 360
tccatctcct ggtaactaca tacaatctga gggatg 396

```

```

<210> 699
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<400> 699
ggccactgca gtgctcgagc cccgtgcagg ggagcttgcg ggaggatcga ccgacagacg 60
gacgcacgcc gaggcactgc gccccagcc ccgcgcgggt gccaccgcag cccgaccccg 120
gccgccagtc cagccgcccc tcgcccgggt cctaggtgcc cggccccaca ccgccagctg 180
ctcggcgccc ggtccgcca tgcgtccgc cgtgtccctg gctcttctgc tctgcgccgg 240
gcaagtcaact gcgtccctg tgaacagccc tatgaataaa ggggataccg aggtgatgaa 300
atgcatcggt gaggtcatct ccgacacact ttccaagccc agcccatgc ctgtcagcca 360
ggaatgtttt gagacactcc gaggatgata acggatcc 398

```

```

<210> 700
<211> 399
<212> DNA
<213> Homo sapiens

```

```

<400> 700
gcctgaatcc cctgcaaacc ccagaggagc tcggcctgcg ctgcgccacg atgtccgggg 60
agtcagccag gagcttgggg aagggaagcg cgccccggg gccggtcccc gagggctcga 120

```

```

tccgcatcta cagcatgagg ttctgcccgt ttgctgagag gacgcgtcta gtcctgaagg 180
ccaaggggaat caggcatgaa gtcacatcaata tcaacctgaa aaataagcct gagtgggttct 240
ttaagaaaaa tcccttttgt ctgggtgccag ttctggaaaa cagtcagggg cagctgatct 300
acgagtctgc catcacctgt gagtacctgg atgaagcata cccaggggaag aagctgttgc 360
cggtatgaccc ctatgagaaa gcttgccaga agatgatct 399

```

```

<210> 701
<211> 399
<212> DNA
<213> Homo sapiens

```

```

<400> 701
gatctcattg ccacgcgccc ccgacgacgg cccgacgtgc attcccgatt ccttttggtt 60
ccaagtccaa tatggcaact ctaaaggatc agctgattta taatcttcta aaggaagaac 120
agacccccca gaataagatt acagttgttg gggttggtgc tgttggcatg gcctgtgcca 180
tcagtatctt aatgaaggac ttggcagatg aacttgctct tgttgatgtc atcgaagaca 240
aattgaaggg agagatgatg gatctccaac atggcagcct ttcccttaga acaccaaaga 300
ttgtctctgg caaagactat aatgtaactg caaactccaa gctgggtcatt atcacggctg 360
gggcacgtca gcaagagggg gaaagccgtc ttaatttgg 399

```

```

<210> 702
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<400> 702
gccacagcgg gagcggcagc aagtcgtccg gaccgccacc gccgtcgggt tcctccggga 60
gtgaggcggc cgcgggagcc ggggcccggc cgccggcttc tcagcacccc gcaaccggca 120
ccggcgtgtt ccagaccgag gccatgaagc agattctcgg ggtgatcgac aagaaacttc 180
ggaacctgga gaagaaaaag ggtaagcttg atgattacca ggaacgaatg aacaaagggg 240
aaaggcttaa tcaagatcag ctggatgccg tttctaagta ccaggaagtc acaataatt 300
tggagtgttc aaaagaatta cagaggagtt tcatggcact aagtcaagat attcagaaaa 360
caataaagaa gacagcacgt cgggagcagc ttatgaga 398

```

```

<210> 703
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<400> 703
ggttacaaaa gttgaagtgc agaagttctt tgcagacttt cttcttgctg aggatgacat 60
ttacttgctt tatgatgaca aaggtgttgg tctgggagaa gcattagtga aatttaaatt 120
agaagaacag gccatgaaag ctgaacgttt aaaccgacga agattcctag ggacagaggt 180
gttattaaga cttatatctg aggcacaaat acaggagttt ggtgtaaatt tttctgtgat 240
gtccagtga aaaaatgcaag ctgcgtcaca gtcacgtgag cgaggtgacc attcccattt 300
atttgactca aaagaccac caatatactc agttggtgct tttgaaaact ttagacatca 360
gctagaggac ttgaggcaac tggataactt caagcatccc cag 403

```

```

<210> 704
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<400> 704

```



```

cacgaggcca aagcccgcgc gccgctgcat cccgcgtcca gcacctacgt cccgctgccg 60
tcgccgccgc caccatgccc aagagaaagg ctgaagggga tgctaaggga gataaagcaa 120
aggtgaagga cgaaccacag agaagatccg cgaggttgtc tgctaaacct gctcctccaa 180
agccagagcc caagcctaaa aaggcccctg caaagaagg agagaaggta cccaaaggga 240
aaaagggaaa agctgatgct ggcaaggagg ggaataaccc tgcagaaaat ggagatgcca 300
aaacagacca ggcacagaaa gctgaagggt ctggagatgc caagtgaagt gtgtgcattt 360
ttgataactg tgtacttctg gtgactgtac agtttgaaat actatttttt a 411

```

```

<210> 705
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<400> 705
gagaacgtcc actgcgggcc gccgaaaagt ggttccttgt ggagaagcac tggataaagc 60
agtgggaggg atacgtgcag ggaggggacc aggactccag caccttcccc ggctcatctg 120
gcgccccagc ctccccctgc tgcagctccc caccagctc tgagttcatg gatgttaatt 180
gagagccctg ggtcctgccca cag 203

```

```

<210> 706
<211> 402
<212> DNA
<213> Homo sapiens

```

```

<400> 706
gtgtgggcag gcagggtagg tggccacccc agttcactcc cacgctgggg acctgcagag 60
ctggctgtcc gagacagggt gtttggaaca acatctgggt ttctggattt ccatattgagc 120
acagctggac tacacaggct gaagctctct ctgccgagat atagatatatt ccttgggtgat 180
gatctttcaa gctgacatga agacatggcc acccactgga acgtcgtgtg tctgccgtgg 240
cgctcttgta atttgtgagg gaggtcctg acgaatgcag tgcgtaagtg ggaaatgggt 300
ggaagttctc gcatcccccc gcttggccga aagtgctgcc tgcgcagatt tgtggatggg 360
cctttgagca ggaagaagac acggaacaca ttctgttag ct 402

```

```

<210> 707
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<400> 707
gcacgaggca cgactgttac agaggctctc agagccttct ctctcctgtg caaaatggca 60
actcttaagg aaaaactcat tgcaccagtt gcggaagaag aggcaacagt tccaaacaat 120
aagatcactg tagtgggtgt tggacaagtt ggtatggcgt gtgctatcag cattctggga 180
aagtctctgg ctgatgaact tgctcttgtg gatgttttgg aagataagct taaaggagaa 240
atgatggatc tgcagcatgg gagcttattt cttcagacac ctaaaattgt ggcagataaa 300
gattattctg tgaccgcca ttctaagatt gtagtggtta ctgcaggagt ccgtcagcaa 360
gaaggggaga gtcgggtcaa tctggtgcag agaaatgtta atgtcttcaa a 411

```

```

<210> 708
<211> 418
<212> DNA
<213> Homo sapiens

```

```

<400> 708
ggcaggccga gcaggccgct gccgagaaac gccaccgtga ggagctggag cagagcaagc 60

```

```

aggccgctgg gggactgctg gcagagctgc tgcgggcccc gcgggagctt ggggagctga 120
ttcctctgcg gcagaaggtg gcagagcagg agcgaacagc tcagcagctg cgggcagaga 180
aggccagcta tgcagagcag ctgagcatgc tgaagaaggc gcatggcctg ctggcagagg 240
agaaccgggg gctgggtgag cgggccaacc ttggccggca gtttctggaa gtggagttgg 300
accaggcccc ggagaagtat gtccaagagt tggcagccgt acgtgctgat gctgagaccc 360
gtctggctga ggtgcagcga gaagcacaga gcactgcccg ggagctggag gtgatgac 418

```

```

<210> 709
<211> 422
<212> DNA
<213> Homo sapiens

```

```

<400> 709
gcggagtcgg cgggtggtcgt ccagaccgag tgttctttac tttttgtttg gttgaggttt 60
cacgctagaa ggtggctcag gatgtcttca tcacattttg ccagtcgaca caggaaggat 120
ataagtactg aaatgattag aactaaaatt gctcatagga aatcactgtc tcagaaagaa 180
aatagacata aggaatacga acgaaataga cactttgggt tgaagatgt aaacattcca 240
accttggaag gtagaattct tgttgaatta gatgagacat ctcaagggct tgttccagaa 300
aagaccaatg ttaagccaag ggcaatgaaa actattctag gtgatcaacg aaaacagatg 360
ctccaaaaat acaagaaga aaagcaactt caaaaattga aagagcagag agagaaagct 420
aa 422

```

```

<210> 710
<211> 424
<212> DNA
<213> Homo sapiens

```

```

<400> 710
gcgccgacgc cgtaccgctg cggccggggg attgggcccg ggtctccacc gccgaccgag 60
gggagcgggc tccgctcggc cctgcttttt gcgacctggc cgtcagcccc acgtcgccgg 120
cctggagggg cgaagaggac gagggggcca aggcttcctc cggggacatt ggctccctgg 180
attatcaaga gtttgtagtt gacattgaat ccaggctgag gatggaagg gtggaactta 240
aagaagaatg gcaagatgaa gattttccga tacctttacc agaagatgat agtattgaag 300
cagatatact agctataact ggaccagagg accagcctgg ctactagaa gttaatggaa 360
ataaagttag aaagaaacta atggctccag acattagcct gacactggat cctagtgatg 420
gctc 424

```

```

<210> 711
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<400> 711
gctcgcgccc cttttcctac actttcctct tctccccgac cggaggagcc gctctttccg 60
cgcggtgcat tctggggccc gaggtcgagc ccgccgctgc cgccgtcgcc tgagggaagc 120
gagaagaggc cgcgaccgga gaaaaaagc ggagtgcgca ccggagagaa gtcgactccc 180
tagcagcagc cgccgccaga gagggccgcc caccagtctg ccogtcccc tgccccgttc 240
acaatgcagc ctgcttctgc aaagtgttac gatcgaaagg actatgtctt cattgaattt 300
tgtgttgaa acagtaagga tgttaatgta aattttgaaa aatccaaact tacattcagt 360
tgtctcgagg gaagtgataa ttttaagcat ttaaataaaa ttgatctttt tctactgtatt 420
gatcc 425

```

```

<210> 712
<211> 425

```

<212> DNA  
<213> Homo sapiens

<400> 712  
 ggttttttccg tgattctgat gagctcaaga gttgggtcaa tgagaagatg aaaactgcc 60  
 cagatgaagc ttataaagat ccatccaacc tacaaggaaa agtacagaag catcaggctt 120  
 ttgaggctga gctctcagca aaccagagcc gaattgatgc cttggagaaa gctggccaaa 180  
 agctgattga tgtcaaccac tatgccaaag atgaagtggc agctcgtatg aatgagggtga 240  
 tcagttttgtg gaagaaactg ctagaggcca ctgaactgaa aggaataaag cttcgtgaag 300  
 ccaaccagca acagcaattt aatcgcaatg ttgaggatat tgaattgtgg ctatatgaag 360  
 tagaaggtca cttggcttcg gatgattacg gcaaagatct taccaatgtg cagaacctcc 420  
 agaag 425

<210> 713  
 <211> 423  
 <212> DNA  
 <213> Homo sapiens

<400> 713  
 gccgacaaaa tggacatgtc tctggacgac atcattaaac tgaaccggag ccagcgaggc 60  
 ggccggggcg ggggcccggg ccgcggccgg gccggctccc agggcggccg cggcggtggg 120  
 gcgcaggccg ccgcgcgagt gaatcgaggc ggccggccca tccggaaccg gccggccatc 180  
 gccgcggcg cgcccgggcg aggcggcagg aaccgaccgg cgccctacag caggccaaaa 240  
 caacttcccg acaagtggca gcacgatctt ttcgacagtg gcttcggcgg tggcgccggc 300  
 gtggagacag gtgggaaact gctggtgtcc aatctggatt ttggagtctc agacgccgat 360  
 attcaggaac tctttgctga atttggaaac ctgaataagg cggctgtgca ctatgatcgc 420  
 tct 423

<210> 714  
 <211> 425  
 <212> DNA  
 <213> Homo sapiens

<400> 714  
 gcggcagtag aagatggtga aagaaacaac ttactacgat gttttggggg tcaaacccaa 60  
 tgctactcag gaagaattga aaaaggctta taggaaactg gccttgaagt accatcctga 120  
 taagaaccca aatgaaggag agaagtttaa acagatttct caagcttacg aagttctctc 180  
 tgatgcaaag aaaagggaat tatatgacaa aggaggagaa caggcaatta aagagggtgg 240  
 agcagggtggc ggttttggct ccccatgga catctttgat atgttttttg gaggaggagg 300  
 aaggatgcag agagaaagga gaggtaaaaa tgttgtacat cagctctcag taacctaga 360  
 agacttatat aatggtgcaa caagaaaact ggctctgcaa aagaatgtga tttgtgacaa 420  
 atgtg 425

<210> 715  
 <211> 423  
 <212> DNA  
 <213> Homo sapiens

<400> 715  
 gatcatatag taaaaccag cccatgaccc ctaacagggg ccctctcagc cctcctaagt 60  
 acctccggcc tagccatgtg atttcacttc cactccataa cgctcctcat actaggccta 120  
 ctaaccaaca cactaaccat ataccaatga tggcgcgatg taacacgaga aagcacatac 180  
 caaggccacc acacaccacc tgtccaaaaa ggcccttcgat acgggataat cctattttatt 240  
 acctcagaag tttttttctt cgcaggattt ttctgagcct tttaccactc cagcctagcc 300

```
cctaccccc aattaggagg gcactggccc ccaacaggca tcaccccgct aaatccccta 360
gaagtcccac tcctaaacac atccgtatta ctgcgcatcag gagtatcaat cacctgagct 420
cac 423
```

```
<210> 716
<211> 424
<212> DNA
<213> Homo sapiens
```

```
<400> 716
gcgggcgcg gcgagagacgc agcggaggtt ttcttggtt cgaccccgag cggccggatg 60
gtgaaatcct ccctgcagcg gatcctcaat agccactgct tcgccagaga gaaggaagg 120
gataaaccca gcgccaccat ccaagccagc cgcaccatgc cgctcctaag cctgcacagc 180
cgcgggcgca gcagcagtga gaggttccagg gtctcctcc actgctgtag taaccgggt 240
ccggggcgctc ggtggtgctc ctgatgcccc tcaccaccc ctgaagatcc cagggtggcg 300
agggaatagt cagagggatc acaatctttc agctaactta ttctactccg atgatcggt 360
gaatgtaaca gaggaactaa cgtccaacga caagacgagg attctcaacg tcagtccagg 420
ctca 424
```

```
<210> 717
<211> 424
<212> DNA
<213> Homo sapiens
```

```
<400> 717
gggcagctag ggagcgcggc ttgaggaggg cggggcgccc ccgcaggccc gccagtgtcc 60
tcagctgcct ccgcgcgcca aagtcaaacc ccgacacccg ccggcgggcc ggtgagctca 120
ctagctgacc cggcaggtca ggatctgggt tagcggcgcc gcgagctcca gtgcgcgcac 180
ccgtggcgcg ctcccagccc tctttgcccg acgagctctg ggccgccaca agactaagga 240
atggccaccc cgcccaagag aagctgcccg tctttctcag ccagctctga ggggacccgc 300
atcaagaaaa tctccatcga agggaacatc gctgcaggga agtcaacatt tgtgaatatc 360
cttaaacaat tgtgtgaaga ttgggaagtg gttcctgaac ctggtgccag atggtgcaat 420
gttc 424
```

```
<210> 718
<211> 425
<212> DNA
<213> Homo sapiens
```

```
<400> 718
gtcgggtcct cgcgcgctcg cgtcccctcg tgcgggctcc agccgcagcc ttagcttcgg 60
ctcccggctt ggggtggcgcg gccgtgccct cgttttgccc tcggaacgcy gctcgaatgg 120
caagccaaaa ttccctcccg atagaatatg atacctttgg tgaactaaag gtgccaaatg 180
ataagtatta tggcgcccag accgtgagat ctacgatgaa ctttaagatt ggaggtgtga 240
cagaacgcag gccaacccca gttattaaag cttttggcat cttgaagcga gcggccgctg 300
aagtaaacca ggattatggt cttgatccaa agattgctaa tgcaataatg aaggcagcag 360
atgaggtagc tgaaggtaaa ttaaatgatc attttcctct cgtggtatgg cagactggat 420
cagga 425
```

```
<210> 719
<211> 413
<212> DNA
<213> Homo sapiens
```

```

<400> 719
gccggggcgt ctccctcacc aatcatcact tctacgatga gtccaagcct ttcacctgcc 60
tggacgggttc ggccaccatc ccatttgatc aggtcaacga tgactattgc gactgcaaag 120
atggctctga cgagccaggc acggctgcct gtcctaattg cagcttccac tgcaccaaca 180
ctggctataa gcccctgtat atcccctcca accgggtcaa cgatggtgtt tgtgactgct 240
gcgatggaac agacgagtac aacagcggcg tcactgtgta gaacacctgc aaagagaagg 300
gccgtaagga gagagagtcc ctgcagcaga tggccgaggt caccgcgaa gggttccgtc 360
tgaagaagat ccttattgag gactggaaga aggcacggga ggagaaacag aaa 413

```

<210> 720

<211> 414

<212> DNA

<213> Homo sapiens

```

<400> 720
gaaagcctct tgtcatctct cagatgggtt ccaaaaagaa gccaaaatt atccagcaaa 60
acaaaaaaga gacctgcct caagtgaagg gagaggagat gccggcagga aaagaccagg 120
aggccagcag gggctctgtt ctttcaggtt ccaagatgga caggaggcg ccagtacctc 180
gcaccaaggc cagtggaaca gagcacaata agaaaggaac caaggaaagg acaaatggtg 240
atattgttcc agaacgaggg gacatcgagc ataagaagcg gaaagctaag gaggcagccc 300
cagccccacc caccgaggaa gacatctggt ttgacgacgt ggaccagcg gatatcgaag 360
ctgccatagg tccagaggcg gccaaagatag cgaggaaaca gttgggtcag agcg 414

```

<210> 721

<211> 414

<212> DNA

<213> Homo sapiens

```

<400> 721
ggcggcgtag gccgggctgg gccgcgcgc gccggcagcg gcgccccggg ccggaggcg 60
cccagccgag cgggccatgg ccaccgccat tcagaaccgc ctcaagtcgc gaggacttct 120
accgcaggcc catcgagcac tgcgcagctt acaacgcgc cctgtgcgc gagcagctcc 180
tgcgactgcc cttcctcgac tcgcagaccg gcgtggccca gaacaactgc tacatctgga 240
tggaagac ccaccgcggg ccgggtttgg ccccgggaca gatttacag taccgccccc 300
gtgttgtag gaagaaacgg agactcaaca tcctggagga cccagactc aggccctgcg 360
agtacaagat cgactgtgaa gcaccoccta agaaggagg tggcctcccg gaag 414

```

<210> 722

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> 262,396

<223> n = A,T,C or G

```

<400> 722
gccagcctct ggtaaccatc cttctacttt ctatgtccat gaattaaatt gtcttgattt 60
ttagatccca taagtgaaga catgcagtgt ttgactttct gtgccttatt tgacttaaca 120
tagtgacctc ccattttcat ctgtgttggt gcaaatgaca ggatctcatt cttttttatt 180
gctgaatagt actccactgt gtatgtgtac cacatttctt tatccattca tctgttgatg 240
ggacacttga gtcttcttcc anatctttgc ctattgtgaa caatgctgca acaaacagta 300
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<213> Homo sapiens

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&lt;210&gt; 727

&lt;211&gt; 414

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 727

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&lt;211&gt; 2170

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;211&gt; 2990

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 731

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<213> Homo sapiens

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                     20                    25                    30  
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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 734

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              20              25              30
Val Gln Asn Ala Ile Leu Gln Ala Val Gln Gln Val Ser Gln Glu Ser
              35              40              45
Gln Arg Arg Glu Glu Arg Ile Ser Asp Asn Arg Asp His Ile Gln Leu
              50              55              60
Gly Val Gly Glu Leu Thr Lys Lys His Glu Lys Lys
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&lt;210&gt; 735

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 735

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              20              25              30
Gly Val Leu Asn Glu Cys Cys Phe Ala Thr Arg Leu Cys Ile Cys Ile
              35              40              45
Arg Thr Leu Leu Thr Phe Pro Ile His Thr Leu Asn Phe Phe Phe Glu
              50              55              60
Ile Met Lys Ile Ile Gln Val Arg Asn Thr
        65              70

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